



DATALOGIC: SOLUTIONS FOR INDUSTRIAL AUTOMATION



Datalogic Industrial Automation is an industry-leader in products and solutions for material handling, traceability, inspection and detection applications.

With the acquisitions of Accu-Sort and PPT Vision in 2012, the company offers a comprehensive portfolio of products, technologies and solutions delivered by a team of skilled professionals dedicated in providing superior service to customers.

Datalogic is the partner of choice for organizations in the Industrial Automation market.

Manufacturing

- AUTOMOTIVE
- ELECTRONICS
- FOOD & BEVERAGE
- GENERAL MANUFACTURING
- HEALTHCARE PHARMACEUTICAL

Transportation & Logistics

- AIRPORTS
- COURIER, EXPRESS PARCEL (CEP)
- POSTAL
- RETAIL DISTRIBUTION

Product portfolio

Datalogic Industrial Automation has the most comprehensive offering of products and solutions for traceability, inspection and detection applications in factory automation and logistics processes: industrial LASER scanners, cameras and vision systems, sensors, machine safety devices and LASER markers.

Identification

Even the most demanding and efficient automation of identification processes can leverage Datalogic Industrial Automation's leadership in the market. We manufacture the world's most comprehensive family of fixed-mount line and omnidirectional scanners.

We also offer the latest CCD vision technology with the world's largest installed base of CCD systems for bar code reading and dimensioning.

All of our AUTO-ID products and solutions leverage the broadest decoding library that has been developed through the years. Datalogic's comprehensive AUTO-ID portfolio is used in a wide range of applications and machines which are behind many of the everyday processes that keeps the global economy running.

Sensors & Safety

Datalogic Industrial Automation offers a best-in-class, comprehensive product portfolio of photoelectric and proximity sensors, rotary encoders, temperature controllers and measurement devices, as well as type 2 and type 4 safety light curtains.

These product lines provide solutions for applications involving color, contrast and luminescence, label detection, dimensional and distance measurement, in addition to machine safeguarding and access control in dangerous areas.

Machine Vision

The Datalogic Industrial Automation machine vision product line encompasses both hardware and software while covering a wide range of performance and price point requirements. The vision portfolio of products and solutions ranges from standalone compact smart cameras to the highest performance embedded processors.

Laser Marking

Laser Marking sources and systems provide value driven marking solutions for automotive, metal tools, medical, electronics and packaging. Datalogic Industrial Automation offers an extensive range of state-of-the-art technology, excellent performance and high reliability marking equipment.



Inductive Sensors

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

DISADVANTAGES

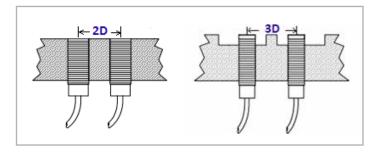
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference (such as electric welding, induction ovens)

Shielded models - FLUSH mounting

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be \geq 3sn and the distance between two proximity switches (side-byside) \geq 2D.

Unshielded models - NON-FLUSH mounting

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3sn and the distance between two adjacent proximity switches ≥ 3D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

METAL FACE version:

Are available stainless steel versions (M12,M18).

Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

WELD FIELD IMMUNE version:

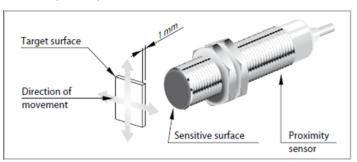
These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

NAMUR version:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers. The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.

Nominal Switching distance (Sn) According to EN 60947-5-2

When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the 'standard detectable object" at its specified sensing distance. The 'standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.

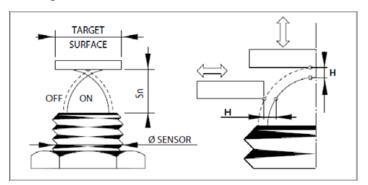


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AlSI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn

Hysteresis (H):

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



AC/DC version:

Are available 2/3-wires versions (M12, M18, M30), that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA.

To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).

'M12/18/30 models are Diversey and ECOLAB tested"



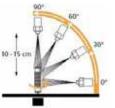






M12/18/30 FLUSH Vdc models are ATEX certified
II 3G EX nA II T6
II 3D EX tD A22 IP67 T85°C





IP69K

The Stainless Steel series is rated IP69K.

OPERATING DISTANCE

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

HOUSING LENGTHS

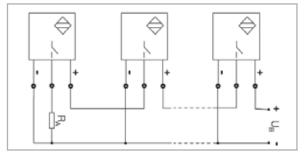
The following table shows the approximate length (mm) intervals for all categories and models of tubular inductive sensors.

MODELS	STAN	IDARD	SHORT	
MODELS	connector	cable	connector	cable
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

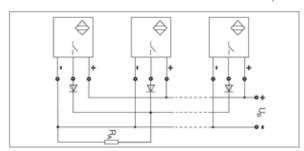
WIRES

ТҮРЕ	description
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
/ WIDEC	Programmable output
4 WIRES	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

ELECTRICAL PARAMETERS

NOMINAL VOLTAGE

Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

RESIDUAL RIPPLE

Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

MAX. OUTPUT CURRENT

It shows maximum output current a sensor can cope with when working steadly.

MIN. OUTPUT CURRENT

Is the smallest load current required for function of the switch when ON.

RESIDUAL CURRENT

Is the current flowing through the load when a proximity switch is not conducting (open).

VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

SWITCHING FREQUENCY

Refers to the maximum number of switching operations per second.

SHORT CIRCUIT PROTECTION

Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.

PROTECTION AGAINST INVERSION OF POLARITY

Available in DC supplied type, it prevents the sensor from being damage when supply cables are incorrectly connected.

■ INDUCTIVE LOAD PROTECTION

It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

08 32 **BASIC** STAINLESS STEEL

- Nickel-plated Brass housing
- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection

- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires
- PNP, NPN, NO, NC
- IP69K protection

54 60 **INDUCTIVE AC NAMUR**

- Nickel-plated Brass housing
- PA 16 active face
- Standard length
- Operating distance 2 ... 10 mm
- M12, M18, M30
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires
- NO
- IP67 protection

- Nickel-plated Brass housing
 - LCP active face
 - Short length
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO

III IS SOUR Shuba

IP67 protection

M4

- flush
- Stainless Steel
- op.dist.: 0,8 mm - diameter: 4 mm
- 3 wires
- PNP or NPN, N.O.
- cable

M5

- flush
- Stainless Steel
- op.dist.: 0,8 mm
- double range vers.: 1,5 mm
- diameter: 5 mm
- 3 wires
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M8 connector or cable

M6,5

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 1,5...2 mm
- double range vers.: 2...3 mm
- diameter: 6,5 mm
- standard or short housing
- 3 wires
- NAMUR (2wires) vers.
- PNP or NPN, N.O., N.C.
- M8 connector or cable

M8

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 1,5...2 mm
- double range vers.: 2...3 mm
- diameter: 8 mm
- standard or short housing
- 3 wires
- NAMUR (2wires) vers. PNP or NPN, N.O., N.C.
- M8, M12 connector or cable

M12

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 2...4 mm
- double range vers.: 4...8 mm
- diameter: 12 mm
- standard or short housing
- 2, 3, 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- Metal Face vers.
- NAMUR vers.
- Field Immune vers.
- PNP or NPN, N.O., N.C. - M12 connector or cable

METAL FACE 46 WELD FIELD IMMUNE 50

- Stainless Steel housing
- Stainless Steel AISI 303 active face
- Stainless Steel active face
- Standard length
- 2...8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

- Stainless Steel housing
- PTFE active face
- Standard length
- Operating distance 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

SQUARE 70 CAPACITIVE 76

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

84

M18

- flush, non-flush
- Stainless Steel, Nickel plated-Brassop.dist.: 5...8 mm
- double range vers.: 8...14 mm
- diameter: 18 mm
- standard or short housing2, 3 4 (programmable NPN/PNP
- output) wires
 Vac/Vdc vers.
- Metal Face vers.
- Field Immune vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.

M30

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 10...15 mm
- double range vers.: 15...20 mm
- diameter: 30 mm
- standard or short housing
- 2, 3, 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.
- Capacitive Multivoltage with timer relay output

SQUARE 40X40

- flush, non-flush
- standard or short housing
- Plastic (PBT resin)
- op.dist.: 15...30 mm; 7-20 mm (Analog vers.)
- diameter: 40 mm
- **-** 2, 3 wires

- Vac/Vdc vers.
- Analog output 4-20mA vers.
- PNP or NPN, N.O., N.C.
- Terminal block

SQUARE 8X8

- flush
- Nickel-Plated Brass
- op.dist.: 1,5 mm
- diameter: 8 mm
- 3 wires, PNP, N.O.
- M8 connector or cable

BASIC

Nickel-plated Brass housing LCP active face Standard length Short length Normal and double range operating distance Operating distance: 1,5 ... 20 mm M6,5, M8, M12, M18, M30 cable, M8 or M12 connector 2, 3 or 4 wires PNP, NPN, PNP/NPN, NO, NC, NO/NC IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

"M12/18/30 models are Diversey and ECOLAB tested"





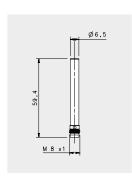


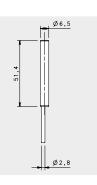


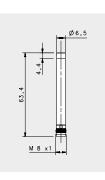


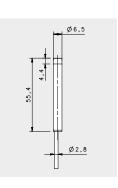
BASIC M6.5



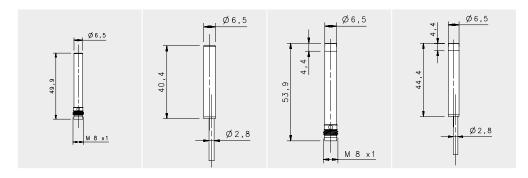






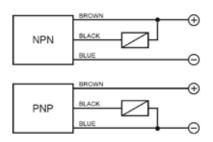


				STANDARD								
				FLL	JSH	NON I	FLUSH					
				M8 conn	cable	M8 conn	cable					
OMINAL SWITCH	HING DISTAN	CE		1,5 mm	1,5 mm	2 mm	2 mm					
10-30 Vdc	PNP/NPN	4 wires										
	NO-NC		order No.									
10-30 Vdc	PNP	3 wires		IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03					
	NO	5 11	order No.	95B066050	95B064730	95B066210	95B064890					
0-30 Vdc	PNP	3 wires		IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03					
	NC		order No.	95B066090	95B064770	95B066250	95B066300					
0-30 Vdc	NPN	3 wires		IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03					
	NO		order No.	95B064970	95B064650	95B066130	95B064810					
0-30 Vdc	NPN	3 wires		IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03					
	NC		order No.	95B066010	95B064690	95B066170	95B064850					
0-30 Vdc	PNP	4 wires										
	NO-NC		order No.									
0-30 Vdc	NPN	4 wires										
	NO-NC		order No.									
0-30 Vdc	NO-NC	2 wires										
			order No.									
20-250 Vac/Vdc	NO	2 wires										
			order No.									
20-250 Vac/Vdc	NC	2 wires										
			order No.									
:0-250 Vac	NO	2/3 wires	2/3 wires	2/3 wires	2/3 wires							
			order No.									
0-30 Vdc	Analog		3 wires	3 wires	3 wires	3 wires						
	0-20 mA		order No.									
NAMUR amplifier	NAMUR	2 wires										
<u> </u>			order No.									
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)					
Residual Ripple				< 10%	< 10%	< 10%	< 10%					
lysteresis				< 10%	< 10%	< 10%	< 10%					
Лах. Output Curre	nt			200 mm	200 mA	200 mm	200 mA					
in. Output Curre												
Residual Current				< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA					
/oltage Drop				< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)					
Operation Led				Yellow	Yellow	Yellow	Yellow					
Switching Frequer	าсง			1000 Hz	1000 Hz	1000 Hz	1000 Hz					
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms					
Repeatability				< 3%	< 3%	< 3%	< 3%					
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)					
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads					
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)					
rotection Degree				IP67	IP67	IP67	IP67					
Table Length				1F07 	2 m	1F07 	2 m					
Table Section					3x 0,14 mm²		3x 0,14 mm²					
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass					
Active Face				LCP	LCP	LCP	LCP					
ightening torque												
Veight - Cable Out	tput				80 g		80 g					
Weight - Connecto	•			40 g		40 g						

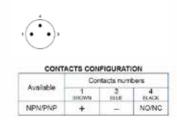


	SH	ORT	
FLUS		NON F	LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03
95B066110	95B064790	95B066270	95B064950
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030	95B064710	95B066190	95B066190
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
200 IIIA 	200 IIIA	200 IIIA 	200 IIIA
		< 10 mA	
< 10 mA	< 10 mA		< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C) IP67	(-25 +70 °C) IP67	(-25 +70 °C) IP67	(-25 +70 °C) IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	80 g		80 g
40 g		40 g	

3 wires PNP or NPN

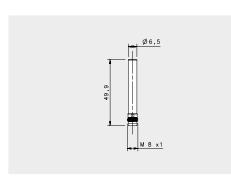


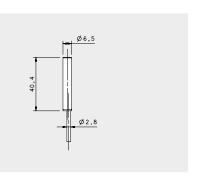
M8 3 pole



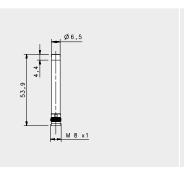
BASIC M6.5

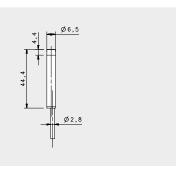






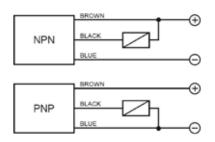
				SHOR	T X2					
				FLUS	SH Comments					
				M8 conn	cable					
IOMINAL SWITCH	HING DISTANCE	E		2 mm	2 mm					
40.70.1/4-	PNP/NPN	/tu								
10-30 Vdc	NO-NC	4 wires	order No.							
10-30 Vdc	PNP	Zuiros		IS-65-G1-S1	IS-65-G1-03					
10-30 Vac	NO	3 wires	order No.	95B066060	95B064740					
10-30 Vdc	PNP	3 wires		IS-65-G2-S1	IS-65-G2-03					
10-30 vuc	NC	2 MILES	order No.	95B066100	95B064780					
0-30 Vdc	NPN	3 wires		IS-65-G3-S1	IS-65-G3-03					
0 30 vac	NO	J WIICS	order No.	95B064980	95B064660					
0-30 Vdc	NPN	3 wires		IS-65-G4-S1	IS-65-G4-03					
0 30 vac	NC	J WIICS	order No.	95B066020	95B064700					
0-30 Vdc	PNP	4 wires								
	NO-NC		order No.							
0-30 Vdc	NPN	4 wires								
	NO-NC		order No.							
10-30 Vdc	NO-NC	2 wires								
			order No.							
20-250 Vac/Vdc	NO	2 wires								
			order No.							
20-250 Vac/Vdc	NC	2 wires	N -							
			order No.							
20-250 Vac	NO	2/3 wires	N -							
			order No.							
0-30 Vdc	Analog 0-20 mA	3 wires	3 wires	3 wires	3 wires	3 wires	3 wires	andan Na		
	0-20 IIIA		order No.		 					
NAMUR amplifier	NAMUR	2 wires	order No.							
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)					
Residual Ripple				< 10%	< 10%					
Hysteresis				< 10%	< 10%					
Max. Output Curre	nt			200 mA	200 mA					
1in. Output Curre	ent									
Residual Current				< 10 mA	< 10 mA					
oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)					
peration Led				Yellow	Yellow					
witching Frequer	ncy			500 Hz	500 Hz					
tart Up Delay				< 75 ms	< 75 ms					
Repeatability				< 3%	< 3%					
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)					
Electric Protection	า			Against polarity reversal inductive loads	Against polarity reversal inductive loads					
emperature Limit				(-25 +70 °C)	(-25 +70 °C)					
rotection Degree				IP67	IP67					
able Length					2 m					
able Section					3 x 0,14 mm²					
lousing Material				Nickel-plated brass	Nickel-plated brass					
Active face				LCP	LCP					
ightening torque										
Weight - Cable Out	tput				80 g					
Weight - Connecto				40 g						





SHORT X 2					
NON FLUSH					
M8 conn	cable				
3 mm	3 mm				
IS-65-H1-S1	IS-65-H1-03				
95B066220	95B064900				
IS-65-H2-S1	IS-65-H2-03				
95B066260	95B064940				
IS-65-H3-S1	IS-65-H3-03				
95B066140	95B064820				
IS-65-H4-S1	IS-65-H4-03				
95B066180	95B064860				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
500 Hz	500 Hz				
< 75 ms	< 75 ms				
< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)				
Against polarity reversal inductive loads	Against polarity reversal inductive loads				
(−25 +70 °C) IP67	(−25 +70 °C) IP67				
	2 m				
	3 x 0,14 mm²				
Nickel-plated brass	Nickel-plated brass				
LCP	LCP				
	80 g				
40 g					

3 wires PNP or NPN

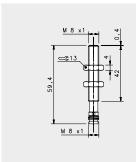


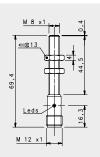
M8 3 pole

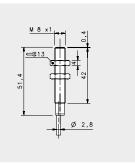


	Contacts numbers				
Available	1 IROWN	3 HUE	HACK		
NPN/PNP	+	_	NO/NO		

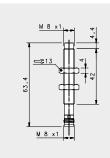




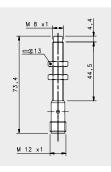


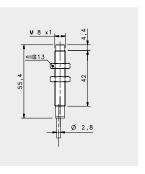


					STANDARD		
					FLUSH		
			,	M8 conn	M12 conn	cable	
OMINAL SWITCH	IING DISTANO	CE		1,5 mm	1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires					
10-30 vac	NO-NC	4 WIIES	order No.				
10-30 Vdc	PNP	3 wires		IS-08-A1-S1	IS-08-A1-S2	IS-08-A1-03	
10 30 vac	NO	J WIICS	order No.	95B061141	95B061131	95B061121	
10-30 Vdc	PNP	3 wires		IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03	
	NC	5 WIICS	order No.	95B061171	95B061161	95B061151	
10-30 Vdc	NPN	3 wires		IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03	
	NO	5 WIICS	order No.	95B061081	95B061071	95B061061	
10-30 Vdc	NPN	3 wires		IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03	
10 30 vac	NC	J WIICS	order No.	95B061111	95B061101	95B061091	
10-30 Vdc	PNP NO-NC	4 wires	order No.				
	NPN		order ivo.				
10-30 Vdc	NO-NC	4 wires	order No.				
			Oraci NO.				
10-30 Vdc	NO-NC	2 wires	order No.				
			order ivo.				
20-250 Vac/Vdc	NO	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			order No.				
0-250 Vac	NO	2/3 wires	order No.				
	A1		order No.				
0-30 Vdc	Analog 0-20 mA	3 wires	order No.				
	0 2011111	NAMUR 2 wires		order No.			
NAMUR amplifier	NAMUR		order No.				
			order ivo.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	
Max. Output Currer	nt			200mA	200mA	200mA	
Ain. Output Curre							
Residual Current				< 10 mA	< 10 mA	< 10 mA	
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	Yellow	
Switching Frequer	ncv			1000 Hz	1000 Hz	1000 Hz	
Start Up Delay	- 1			< 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Farmanako era 1 da 19							
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	
Cable Length						2 m	
Table Section						3x 0,14 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	
ightening torque				4Nm	4Nm	4Nm	
Weight - Cable Out	•					80 g	
Weight - Connecto	r Output			35g	55g		



35g

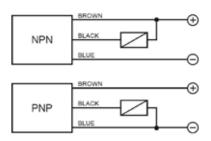




	STANDARD	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
		
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	95B061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03
95B061481	95B061471	95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	95B066450
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g

55g

3 wires PNP or NPN



M123 pole



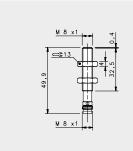
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		777	NOING

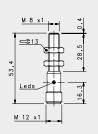
M8 3 pole

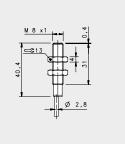


CONT	ACTS CON	FIGURAT	ION	
27.002.0	Contacts numbers			
Available	1 BROWN	3 HUE	HACK	
NPN/PNP	+	=	NONC	

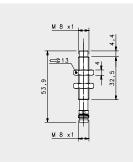




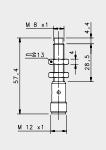


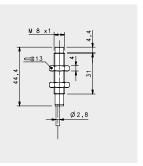


					SHORT			
					FLUSH			
				M8 conn	M12 conn	cable		
OMINAL SWITCH	IING DISTANO	CE		1,5 mm	1,5 mm	1,5 mm		
	PNP/NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
	PNP			IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03		
10-30 Vdc	NO	3 wires	order No.	95B066860	95B066590	95B061921		
	PNP			IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03		
10-30 Vdc	NC	3 wires	order No.	95B066890	95B066620	95B061951		
	NPN			IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03		
10-30 Vdc	NO	3 wires	order No.	95B066810	95B066530	95B061861		
	NPN			IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03		
0-30 Vdc	NC	3 wires	order No.	95B066830	95B066560	95B061891		
	PNP							
0-30 Vdc	NO-NC	4 wires	order No.					
10.201//	NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3 wires	order No.					
	Δηαίοσ	Analog 0-20 mA 3 wires						
0-30 Vdc	0-20 mA		order No.					
MANAGE US	NAME	MUD 2iv	.D	UD 2i				
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%	< 10%		
Hysteresis				< 10%	< 10%	< 10%		
Max. Output Curre				200mA	200mA	200mA		
Min. Output Curre	nt							
Residual Current				< 10 mA	< 10 mA	< 10 mA		
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)		
Operation Led				Yellow	Yellow	Yellow		
Switching Frequer	ncy			1000 Hz	1000 Hz	1000 Hz		
Start Up Delay				< 50 ms	< 50 ms	< 50 ms		
Repeatability				< 3%	< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)		
Protection Degree				IP67	IP67	IP67		
Table Length						2 m		
Table Section						3 x 0,14 mm²		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Active face				LCP	LCP	LCP		
Γightening torque				4Nm	4Nm	4Nm		
Weight - Cable Out	put					80 g		
Weight - Connecto				35g	55g			



35g

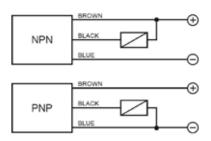




	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
95B066970	95B066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
95B067000	95B066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
95B066920	95B066650	95B066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	95B062291
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g

55g

3 wires PNP or NPN



M123 pole



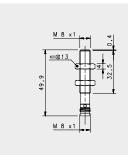
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		777	NOING

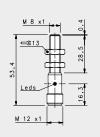
M8 3 pole

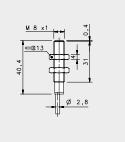


CONT	ACTS CON	FIGURAT	ION	
27.002.0	Contacts numbers			
Available	1 BROWN	3 HUE	HACK	
NPN/PNP	+	=	NONC	

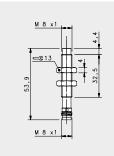


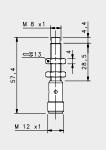


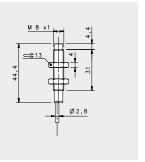




					SHORT X2			
					FLUSH			
				M8 conn	M12 conn	cable		
IOMINAL SWITCH	IING DISTANO	Œ		2 mm	2 mm	2 mm		
10-30 Vdc	PNP/NPN	4 wires						
10 30 vac	NO-NC	4 WIICS	order No.					
10-30 Vdc	PNP	3 wires		IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03		
	NO	5	order No.	95B066850	95B066580	95B066370		
10-30 Vdc	PNP	3 wires		IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03		
	NC		order No.	95B066880	95B066610	95B066390		
10-30 Vdc	NPN	3 wires		IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03		
	NO		order No.	95B066800	95B066520	95B066330		
0-30 Vdc	NPN NC	3 wires		IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03		
			order No.	95B063131	95B066550	95B066350		
0-30 Vdc	PNP NO-NC	4 wires	order No					
			order No.					
0-30 Vdc	NPN NO-NC	4 wires	order No.					
	140 140		order NO.					
0-30 Vdc	NO-NC	2 wires	order No.					
			order No.					
0-250 Vac/Vdc	NO	2 wires	order No.					
		C 2 wires	order No.					
20-250 Vac/Vdc	NC		2 wires	order No.				
			order No.					
20-250 Vac	NO	2/3 wires	order No.					
	Analog 3 wires							
0-30 Vdc	0-20 mA	-20 mA	3 wires	3 wires	order No.			
IAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%	< 10%		
lysteresis				< 10%	< 10%	< 10%		
Max. Output Curre				200mA	200mA	200mA		
Min. Output Curre	nt							
Residual Current				< 10 mA	< 10 mA	< 10 mA		
Oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA) Yellow	< 1,2 V (I=100mA)		
Operation Led	acv.			Yellow 500 Hz	Yellow 500 Hz	Yellow 500 Hz		
Switching Frequer	icy			< 75 ms	< 75 ms	< 75 ms		
Start Up Delay Repeatability				< 3%	< 3%	< 3%		
Repeatability Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
				Against polarity reversal	Against polarity reversal	Against polarity reversal		
lectric Protection				inductive loads	inductive loads	inductive loads		
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)		
rotection Degree				IP67	IP67	IP67		
able Length						2 m		
able Section						3 x 0,14 mm²		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Active face				LCP	LCP	LCP		
ightening torque				4Nm	4Nm	4Nm 80 g		
Neight - Cable Out								

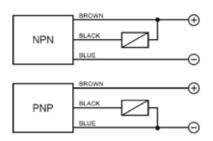






	SHORT X2	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
		
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
		
		
		
		
		
		
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



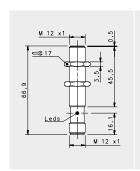
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		777	NOING

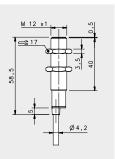
M8 3 pole

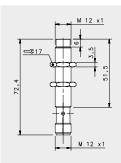


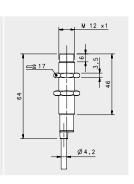
CONT	ACTS CON	FIGURAT	ION	
Sant energy st	Contacts numbers			
Available	1 BROWN	3 HUE	HACK	
NPN/PNP	+	=	NONC	



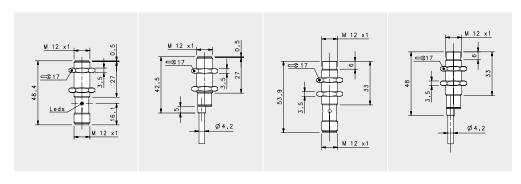








				STANDARD				
				FLI	JSH		FLUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires		IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03	
10 30 vac	NO-NC	4 WIIC3	order No.	95B064060	95B064030	95B064080	95B064040	
10-30 Vdc	PNP	3 wires		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03	
	NO		order No.	95B061251	95B061241	95B061651	95B061641	
10-30 Vdc	PNP NC	3 wires	and an Na	IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03	
			order No.	95B061281	95B061271 IS-12-A3-03	95B061681	95B061671	
10-30 Vdc	NPN NO	3 wires	order No.	IS-12-A3-S2 95B061191	95B061181	IS-12-C3-S2 95B061591	IS-12-C3-03 95B061581	
	NPN		order No.	IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03	
10-30 Vdc	NC	3 wires	order No.	95B061221	95B061211	95B061621	95B061611	
	PNP		oraci ivo.					
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN		oraci itoi					
10-30 Vdc	NO-NC	4 wires	order No.					
				IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B063931	95B064100	95B064140	95B064110	
20-250 Vac/Vdc	NO	2 wires	order No.					
20. 250 \/ /\/	NC	2						
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3 wires	2/3 wires					
20-250 vac	INU			order No.				
10-30 Vdc	Analog	3 wires						
10-30 vac	0-20 mA	2 MILE2	order No.					
NAMUR amplifier	NAMUR	2 wires						
		2 1163	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Currer	nt			200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	
Min. Output Curre	nt			> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	
Residual Current				< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	
Voltage Drop				< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	
Operation Led				Yellow	Yellow	Yellow	Yellow	
Switching Frequen	ncy			1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-N	
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				10Nm	10Nm	10Nm	10Nm	
Weight - Cable Out	put				110 g		110 g	
Weight - Connector				60 g		60 g		

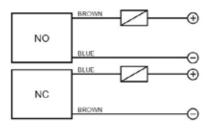


	SH	ORT		
FLU	JSH	NON FLUSH		
M12 conn	cable	M12conn	cable	
2 mm	2 mm	4 mm	4 mm	
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03	
95B062051	95B062041	95B062451	95B062441	
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03	
95B062081	95B062071	95B062481	95B062471	
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03	
95B061991	95B061981	95B062391	95B062381	
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03	
95B062021	95B062011	95B062421	95B062411	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	< 10%	< 10%	
< 10%	< 10%	< 10%	< 10%	
200 mA	200 mA	200 mA	200 mA	
< 10 mA	< 10 mA	< 10 mA	< 10 mA	
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
Yellow	Yellow	Yellow	Yellow	
1000 Hz	1000 Hz	1000 Hz	1000 Hz	
< 50 ms	< 50 ms	< 50 ms	< 50 ms	
< 3%	< 3%	< 3%	< 3%	
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
			Against polarity reversal	
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	inductive loads	
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)	
IP67	IP67	IP67	IP67	
	2 m		2 m	
	3 x 0,14 mm²		3 x 0,14 mm²	
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
LCP	LCP	LCP	LCP	
10Nm	10Nm	10Nm	10Nm	
	110 g		110 g	
60 g	. 0	60 a		

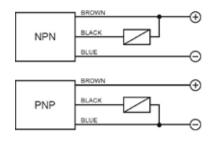
60 g

60 g

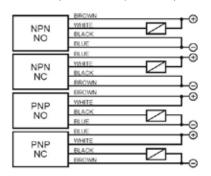
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Ameliable	Contacts numbers			
Average	3	2	3	4
NO	*		-	
NC	- 22		+	

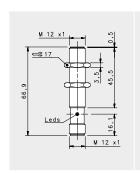
3 wires

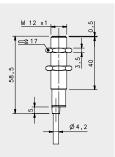
C	ONTACTS	CONFIGU	RATION	
Available	-	Contacts	numbers	-
Available	1	2	3	4
(NO or NC)	+		-	NOINC

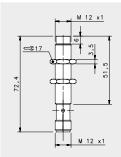
4 wires (PNP/NPN, NO/NC)

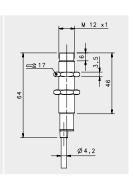
Output		Contacts	numbers	
Output	010	2	- 3	4
NPN NO	+	NO		-
NPN NC	-	NC	+	-
PNP NO	+ .	+		NO
PNP NC	-	+	+	NC



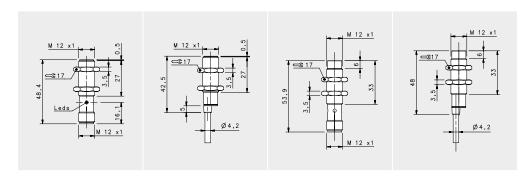




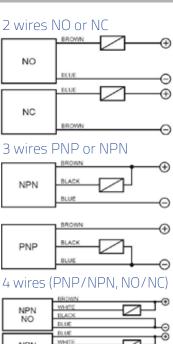


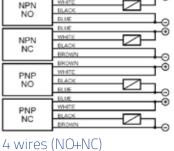


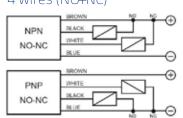
				<u>STAND</u>	ARD X2	
			FLI	JSH	NON I	FLUSH
			M12 conn	cable	M12 conn	cable
IING DISTAN	CE		4 r	mm	8 r	mm
PNP/NPN	/, wiroc		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03
NO-NC	4 WIIES	order No.	95B067230	95B067190	95B067250	95B067210
PNP	Zwiros		IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03
NO	5 WILES	order No.	95B067030	95B067670	95B067020	95B067740
PNP	2 wiroc		IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03
NC	5 WILES	order No.	95B067640	95B067680	95B067710	95B067750
NPN	2 wiroc		IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03
NO	5 WILES	order No.	95B067650	95B067690	95B067720	95B067760
NPN	2 wires		IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03
NC	3 wires	order No.	95B067660	95B067700	95B067730	95B067770
PNP	,					
NO-NC	4 Wires	order No.				
NPN	,					
NO-NC	4 Wires	order No.				
			IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03
NO-NC	2 wires	order No.	95B067240	95B067200	95B067260	95B067220
NO	2 wires	order No.				
	I					
NC	2 wires	order No.				
NO	2/3 wires	order No.				
Δηαίοσ						
0-20 mA	3 wires	order No.				
		oraci itai				
NAMUR	2 wires	order No.				
			10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
						< 10%
			< 10%	< 10%	< 10%	< 10%
nt						100 mA
			< 10 mA	< 10 mA	< 10 mA	< 10 mA
			-			< 1,2 V (I=100mA)
						Yellow
ירע						400 Hz/200 Hz (2 wires NO-NO
icy						< 75 ms
						< 3%
action			-			Present (self-resetting)
ction			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
1			IIIuucuve Iuaus	muucuve maus		
			1 25 170 °C\	/ 2E →70 °C\	/ 7E .70 °C\	
			(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
			IP67	IP67	IP67	IP67
				IP67 2 x 0,34 mm² 3 x 0,14 mm²		IP67 2 x 0,34 mm² 3 x 0,14 mm²
			IP67 	1P67 2 × 0,34 mm² 3 × 0,14 mm² 4 × 0,25 mm²	IP67 	1P67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
			IP67 Nickel-plated brass	1P67 2 × 0,34 mm² 3 × 0,14 mm² 4 × 0,25 mm² Nickel-plated brass	IP67 Nickel-plated brass	IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass
			IP67 Nickel-plated brass LCP	1P67 2 × 0,34 mm² 3 × 0,14 mm² 4 × 0,25 mm² Nickel-plated brass LCP	IP67 Nickel-plated brass LCP	IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm³ Nickel-plated brass LCP
			IP67 Nickel-plated brass	1P67 2 × 0,34 mm² 3 × 0,14 mm² 4 × 0,25 mm² Nickel-plated brass	IP67 Nickel-plated brass	1P67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass
	PNP/NPN NO-NC PNP NO PNP NC NPN NO NPN NC PNP NO-NC NO-NC NO-NC	NO-NC 4 wires PNP NO 3 wires PNP NC 3 wires NPN NO 3 wires NPN NC 4 wires NPN NO-NC 4 wires NO-NC 2 wires NO 2 wires NO 2/3 wires	PNP/NPN NO-NC 4 wires order No. PNP NO 3 wires order No. PNPN NO 3 wires order No. NPN NO 3 wires order No. NPN NC 3 wires order No. NPN NC 4 wires order No. NPN NO-NC 4 wires order No. NO-NC 2 wires order No. NO 2 wires order No. NC 2 wires order No. NO 2/3 wires order No. NO 2/3 wires order No. NO 2/3 wires order No. NAMUR 2 wires order No. NAMUR 2 wires order No.	M12 conn	NING DISTANCE	M12 conn



	SHOF	RT X2	
FLU			FLUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
500 Hz/200 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
10Nm	10Nm	10Nm	10Nm
	110 g		110 g
60 g		60 g	







M12 connector connections



2 wires NO or NC

CONTACTS CONFIGURATION					
Auglable	Contacts numbers				
ANAHADOM:	.1	2	3	- 4	
NO	+		2		
NC			+		

3 wires

C	ONTACTS	CONFIGU	RATION	
Bulletin Street		Contacts	numbers	
Available .	1	2	3	4
(NO or NC)	+		-	NOINC

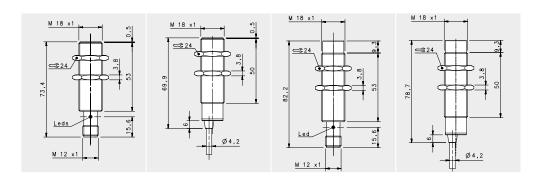
4 wires (PNP/NPN, NO/NC)

0.00		Contacts	numbers	
Output	1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC.	+	-
PNP NO	+	+	-	NO
PNP NC		+	+	NO

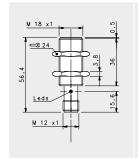
4 wires (NO+NC)

		Contacts	numbers	
Available	1	2	3	- 4
(NO+NC)	+	NC:	-	NO





				STANDARD				
				FLU	JSH	NON I	LUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		5 mm	5 mm	8 mm	8 mm	
40.20.1/4-	PNP/NPN	/tu		IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B064260	95B064230	95B064280	95B064240	
10-30 Vdc	PNP	3 wires		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03	
10-30 Vac	NO	3 WIIES	order No.	95B061351	95B061341	95B061751	95B061741	
10-30 Vdc	PNP	3 wires		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03	
	NC	3 1163	order No.	95B061371	95B061361	95B061771	95B061761	
10-30 Vdc	NPN	3 wires		IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03	
	NO		order No.	95B061311	95B061301	95B061711	95B061701	
10-30 Vdc	NPN	3 wires		IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03	
	NC		order No.	95B061331	95B061321	95B061731	95B061721	
10-30 Vdc	PNP NO-NC	4 wires						
			order No.					
10-30 Vdc	NPN NO-NC	4 wires	order No					
	INO INC		order No.	IS-18-A9-S2	 S-18-A9-03	IS-18-C9-S2	IS-18-C9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B063941	95B064300	95B064340	95B064310	
			order No.				930004310	
20-250 Vac/Vdc	NO	2 wires	order No.					
			order ivo.					
20-250 Vac/Vdc	NC	2 wires	order No.					
			order ivo.					
20-250 Vac	NO	2/3 wires	order No.					
	Analog							
10-30 Vdc	0-20 mA	3 wires	order No.					
NAMED	NAMUD	2						
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Currer				200 mA	200 mA	200 mA	200 mA	
Min. Output Currer	nt			> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
Voltage Drop Operation Led				< 1,8V; < 6,5 V (2wires ver.) Yellow	< 1,8V; < 6,5 V (2wires ver.) Yellow	< 1,8V; < 6,5 V (2wires ver.) Yellow	< 1,8V; < 6,5 V (2wires ver.) Yellow	
Switching Frequen	CV			1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-N	
Start Up Delay	Ly			< 50 ms	< 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection	23.011			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				30Nm	30Nm	30Nm	30Nm	
Weight - Cable Out	put				145g		145g	
Weight - Connector				95g		95g		



LCP

30Nm

95g

LCP

30Nm

145g

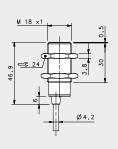
LCP

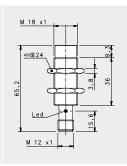
30Nm

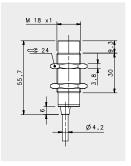
95g

LCP 30Nm

145g



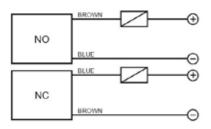




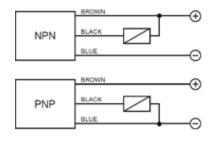
	SHOKI					
FLL	JSH	NON FLUSH				
M12 conn	cable	M12 conn	cable			
5 mm	5 mm	8 mm	8 mm			
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03			
95B062151	95B062141	95B062551	95B062541			
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03			
95B062171	95B062161	95B062571	95B062561			
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03			
95B062111	95B062101	95B062511	95B062501			
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03			
95B062131	95B062121	95B062531	95B062521			
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
< 10%	< 10%	< 10%	< 10%			
< 10%	< 10%	< 10%				
			< 10%			
200 mA 	200 mA 	200 mA 	200 mA 			
< 10 mA	< 10 mA	< 10 mA	< 10 mA			
< 1,8 V (I=100mA)						
Yellow	Yellow	Yellow	Yellow			
1000 Hz	1000 Hz	1000 Hz	1000 Hz			
< 50 ms	< 50 ms	< 50 ms	< 50 ms			
< 3%	< 3%	< 3%	< 3%			
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)			
Against polarity reversal inductive loads						
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)			
IP67	IP67	IP67	IP67			
	2 m		2 m			
	3 x 0,14 mm²		3 x 0,14 mm²			
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass			
ICB	ICP	ICP	ICD			

SHORT

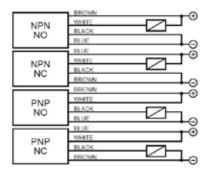
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Amelable	Contacts numbers			
Available	3	2	3	4
NO	*		-	
NC	- 22		+	

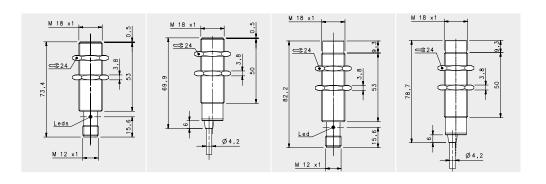
3 wires

C	ONTACTS	CONFIGU	RATION	
Available	and any house he	Contacts	numbers	911.
Available	1	2	3	4
(NO or NC)	+		-	NO/NO

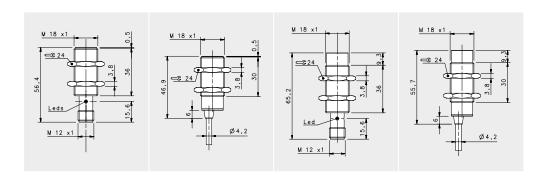
4 wires (PNP/NPN, NO/NC)

Separate 1		Contacts	numbers	
Output	14 1 ii	2	- 3	4
NPN NO	+	NO		-
NPN NC	-	NC	+	-
PNP NO	+	+:	-	NO
PNP NC	-	+	+	NO

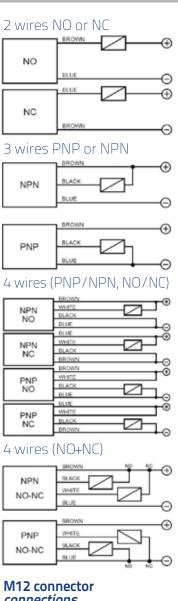




					STAND	ARD X2		
				FLU	SH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	IING DISTANO	CE		8 m	ım	14	mm	
10-30 Vdc	PNP/NPN	4 wires		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03	
10-30 Vac	NO-NC	4 WIFES	order No.	95B067310	95B067270	95B067330	95B067290	
0.207/4-	PNP	2		IS-18-E1-S2	IS-18-E1-03	IS-18-F1-S2	IS-18-F1-03	
10-30 Vdc	NO	3 wires	order No.	95B067050	95B067810	95B067040	95B067880	
0-30 Vdc	PNP	2		IS-18-E2-S2	IS-18-E2-03	IS-18-F2-S2	IS-18-F2-03	
0-30 Vac	NC	3 wires	order No.	95B067780	95B067820	95B067850	95B067890	
10 20 //4-	NPN	2		IS-18-E3-S2	IS-18-E3-03	IS-18-F3-S2	IS-18-F3-03	
0-30 Vdc	NO	3 wires	order No.	95B067790	95B067830	95B067860	95B067900	
10. 20.1/1	NPN	. .		IS-18-E4-S2	IS-18-E4-03	IS-18-F4-S2	IS-18-F4-03	
0-30 Vdc	NC	3 wires	order No.	95B067800	95B067840	95B067870	95B067910	
	PNP							
0-30 Vdc	NO-NC	4 wires	order No.					
	NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
				IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B067320	95B067280	95B067340	95B067300	
			order 110.					
20-250 Vac/Vdc	NO	2 wires	order No.					
			Order 140.					
20-250 Vac/Vdc	NC	2 wires	order No.					
			order No.					
0-250 Vac	NO	2/3 wires	order No.					
	0 1		order No.					
0-30 Vdc	Analog 0-20 mA	3 wires	3 wires	andan Na				
	0-20 IIIA		order No.					
NAMUR amplifier	NAMUR	2 wires	N -					
			order No.					
laminal Valtage				10 70 \\d-1 15 \10%\	10 20 // 15 / 15 / 10%	10 70 \\d-1 15 (10%)	10 20 \/d=/ 15 /10%\	
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
lysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre				200 mA	200 mA	200 mA	200 mA	
Min. Output Curre	nt							
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	Yellow	Yellow	
Switching Frequer	ncy			400 Hz	400 Hz	100 Hz	100 Hz	
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
able Length								
Table Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²	
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
				LCP	LCP	LCP	LCP	
				LCP	LCP	LCP	LCP	
Active face				201	20N	30N	2011~	
Active face Fightening torque Weight - Cable Out	tout			30Nm 	30Nm 	30Nm 145g	30Nm 145g	



	SHO	RT X2			
FLL		NON FLUSH			
M12 conn	cable	M12 conn	cable		
8 mm	8 mm	14 mm	14 mm		
0 111111	0	14 111111			
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03		
95B063531	95B063521	95B063611	95B063601		
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03		
95B063551	95B063541	95B063631	95B063621		
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03		
95B063491	95B063061	95B063571	95B063561		
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03		
95B063511	95B063501	95B063591	95B063581		
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03		
95B062731	95B062721	95B062811	95B064220		
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03		
95B062711	95B064200	95B062791	95B064210		
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
< 10%	< 10%	< 10%	< 10%		
< 10%	< 10%	< 10%	< 10%		
200 mA	200 mA	200 mA	200 mA		
> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)		
< 10 mA	< 10 mA	< 10 mA	< 10 mA		
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)		
Yellow	Yellow	Yellow	Yellow		
400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)		
< 75 ms	< 75 ms	< 75 ms	< 75 ms		
< 3%	< 3%	< 3%	< 3%		
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)		
IP67	IP67	IP67	IP67		
	2 m		2 m		
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²		
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
LCP	LCP	LCP	LCP		
30Nm	30Nm	30Nm	30Nm		
	145g		145g		
95g		95g			
		<u>~</u>			



connections

2 wires NO or NC

Accessed to	Contacts numbers			
AVAILABLE -	1	2	3	- 4
NO	+		1	
NC	-		+	

3 wires

C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
	1	2	3	4
(NO or NC)	+		-	NOINC

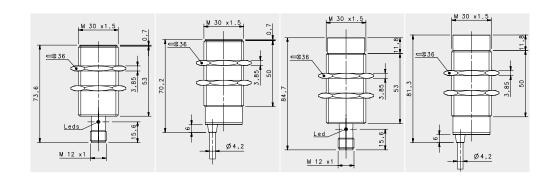
4 wires (PNP/NPN, NO/NC)

		Contacts	numbers	
Output	1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC.	+	-
PNP NO	+	+	-	NO
PNP NC		+	+	NO

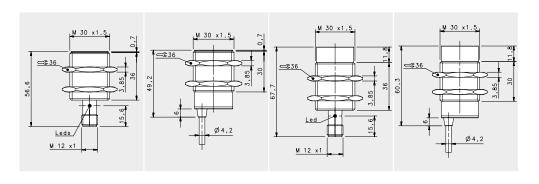
4 wires (NO+NC)

Available		Contacts	numbers	
HVBNACIN.	1.5	2	3	4
(NO+NC)	+	NC.	-5	NO





					STAN	DARD	
				FLU	JSH	NON I	FLUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		10 mm	10 mm	15 mm	15 mm
	PNP/NPN	l		IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B064490	95B064460	95B064510	95B064470
10 20 1/4-	PNP	2		IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03
10-30 Vdc	NO	3 wires	order No.	95B061431	95B061421	95B061831	95B061821
10-30 Vdc	PNP	3 wires		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03
10-30 vac	NC	2 MILE2	order No.	95B061451	95B061441	95B061851	95B061841
10-30 Vdc	NPN	3 wires		IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03
	NO		order No.	95B061391	95B061381	95B061791	95B061781
10-30 Vdc	NPN	3 wires		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03
	NC		order No.	95B061411	95B061401	95B061811	95B061801
10-30 Vdc	PNP NO-NC	4 wires					
	-		order No.				
10-30 Vdc	NPN NO-NC	4 wires	audau Na				
	IVO-IVC		order No.	IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03
10-30 Vdc	NO-NC	2 wires	order No.	95B064570	95B064530	95B064590	95B064550
			order No.	335004370			330004330
20-250 Vac/Vdc	NO	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			order rior				
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
NIANALID III	NAMES	. .					
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Currer				200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Curre	nt			> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current				< 1,6 mA < 1,8V; < 6,5 V (2wires)	< 1,6 mA < 1,8V; < 6,5 V (2wires)	< 1,6 mA < 1,8V; < 6,5 V (2wires)	< 1,6 mA < 1,8V; < 6,5 V (2wires)
Voltage Drop Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequer	ncv			300 Hz/250 Hz (2 wires NO-NC)			
Start Up Delay	icy			< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				60Nm	60Nm	60Nm	60Nm
Weight - Cable Out	put				210 g		210 g
Weight - Connector	•			170 g		170 g	

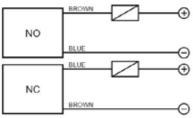


	SH	ORT	
FLL	JSH	NON F	LUSH
M12 conn	cable	M12 conn	cable
10 mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	95B062181	95B062591	95B062581
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03
95B062211	95B062201	95B062611	95B062601
40.2011 / 45.440%	40.20.1/1./.45/40%	10.2011 / 15/100)	40 2011 / 45 (40%)
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow 300 Hz	Yellow
300 Hz < 50 ms	300 Hz	< 50 ms	300 Hz
< 3%	< 50 ms < 3%	< 3%	< 50 ms < 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
			-
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
60Nm	60Nm	60Nm	60Nm
	210 g		210 g
170 α		170 g	

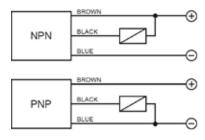
170 g

170 g

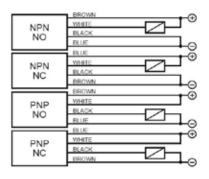
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

*	Contacts numbers			
Available	3	2	3	4
NO	*		-	
NC	100		+	

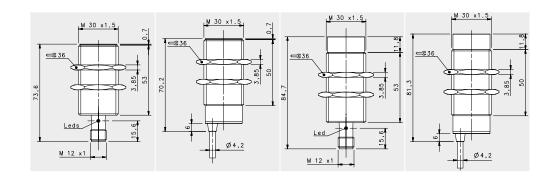
3 wires

C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	95V
Avvailable	-1	2	3	4
(NO or NC)	+		-	NO/NO

4 wires (PNP/NPN, NO/NC)

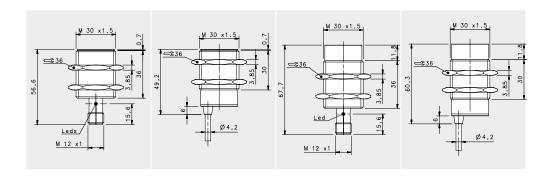
Output	Contacts numbers					
Output	11	2	- 3	4		
NPN NO	+	NO	-23	-		
NPN NC	-	NC	+	-		
PNP NO	+ .	+		NO		
PNP NC	-	+	+	NO		



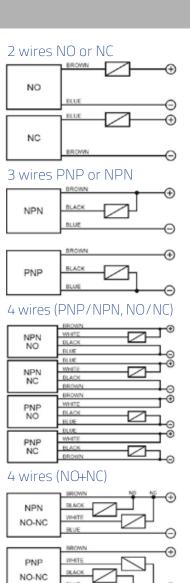


STANDARD X2

				FLU	JSH	NON-I	FLUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCH	IING DISTANO	CE		15mm	15mm	20 mm	20 mm
	PNP/NPN	l		IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B067390	95B067350	95B067410	95B067370
	PNP			IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03
10-30 Vdc	NO	3 wires	order No.	95B067060	95B067950	95B067990	95B068030
	PNP		order No.	IS-30-E2-S2	IS-30-E2-03	IS-30-F2-S2	IS-30-F2-03
10-30 Vdc	NC	3 wires	order No.	95B067920	95B067960	95B068000	95B068040
	-		order No.	IS-30-E3-S2	IS-30-E3-03	IS-30-F3-S2	IS-30-F3-03
10-30 Vdc	NPN NO	3 wires	order No.	95B067930	95B067970	95B068010	95B068050
	-		order No.		IS-30-E4-03		
10-30 Vdc	NPN NC	3 wires	audau Na	IS-30-E4-S2 95B067940	95B067980	IS-30-F4-S2 95B068020	IS-30-F4-03 95B068060
			order No.				
10-30 Vdc	PNP NC	4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	NO-NC	2 wires		IS-30-E9-S2	IS-30-E9-03	IS-30-F9-S2	IS-30-F9-03
		2	order No.	95B067400	95B067360	95B067420	95B067380
20-250 Vac/Vdc	NO	2 wires					
20 250 vac, vac	140	2 Wiles	order No.				
20-250 Vac/Vdc	NC	2 wires					
20 230 vac/ vac	IVC	2 WIICS	order No.				
20-250 Vac	NO	2/3wires					
20-250 vac	NO	2/3 WILES	order No.				
10. 20 1/4-	Analog	2					
10-30 Vdc	0-20 mA	3 wires	order No.				
NIANALID lifi	NAMUD	2					
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
•				< 10%		< 10%	
Residual Ripple				-	< 10%	< 10%	< 10% < 10%
Hysteresis				< 10%	< 10%		
Max. Output Currer				200 mA	200 mA	200 mA	200 mA
Min. Output Curre	nt						
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 6,5 V (I=100mA)	< 6,5 V (I=100mA)	< 6,5 V (I=100mA)	< 6,5 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequer	ncy			200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-N
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				60Nm	60Nm	60Nm	60Nm
Weight - Cable Out							
Welgii - Lanie Liii	DUT						



	SHO	RT X2	
FLU	SH	NON F	LUSH
M12 conn	cable	M12 conn	cable
15mm	15mm	20 mm	20 mm
IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03
95B063691	95B063681	95B063771	95B063761
IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03
95B063711	95B063701	95B063791	95B063781
IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03
95B063651	95B063641	95B063731	95B063721
IS-30-G4-S2	IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03
95B063671	95B063661	95B063751	95B063741
IS-30-G5-S2	IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03
95B063831	95B063821	95B064450	95B064420
IS-30-G6-S2	IS-30-G6-03	IS-30-H6-S2	IS-30-H6-03
95B064430	95B064400	95B064440	95B064410
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
200 Hz	200 Hz	200 Hz	200 Hz
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
60Nm	60Nm	60Nm	60Nm
	210 g		210 g
170 g		170 g	



M12 connector connections

2 wires NO or NC

	CONTACTS	CONFIGU	RATION		
W. Carachard	Contacts numbers				
Available	1	2	3	4	
NO	+	~~	-		
NC	-		+		

3 wires

C	ONTACTS	CONFIGU	RATION		
Australia	Contacts numbers				
Ayanabie	1	2	3	4	
(NO or NC)	+		+	NOING	

4 wires (PNP/NPN, NO/NC)

0.00		Contacts	numbers	
Output	1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC.	+	-
PNP NO	+	+	-	NO
PNP NC		+	+	NO

4 wires (NO+NC)

Available	Contacts numbers					
	- 1	2	3	4		
(NO+NC)	+	NC.	-	NO		

STAINLESS STEEL

Stainless Steel housing
M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face
Standard length
Short length
Normal and double range operating distance
Operating distance 0.8 ... 20 mm
M4, M5, M6,5, M8, M12, M18, M30
Cable, M8 or M12 connector
3 wires
PNP, NPN, NO, NC
IP69K protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

"M12/18/30 models are Diversey and ECOLAB tested"



^{*}Excluded M4 and M5 models

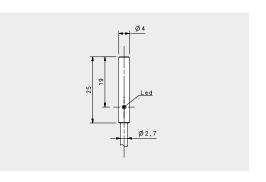




STAINLESS STEEL

STAINLESS STEEL M4





FLUSH cable

0,8 mm

NOMINAL SWITCHING DISTANCE

NAMUR amplifier

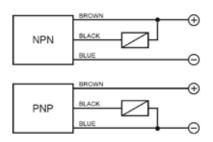
NAMUR

2 wires

10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP	3 wires		IS-04-A1-03
	NO		order No.	95B061011
10-30 Vdc	PNP	3 wires		
10-30 Vac	NC	2 MILE2	order No.	
40.2014-	NPN	3		IS-04-A3-03
10-30 Vdc	NO	3 wires	order No.	95B061001
40.20141	NPN			
10-30 Vdc	NC	3 wires	order No.	
	PNP			
10-30 Vdc	NO-NC	4 wires	order No.	
	NPN			
10-30 Vdc	NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2		
10-30 Vac	INO-INC	2 wires	order No.	
20 2501//1/4-	NO	2		
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires		
20-250 VaC/ VuC	INC	2 wires	order No.	
20-250 Vac	NO	2/3wires		
20-230 Val	INO	ZI J WIIES	order No.	
10-30 Vdc	Analog	3 wires		
10-30 vdC	0-20 mA	2 MILE2	order No.	

NAMUR amplifier	NAMUR	2 wires order No.						
			order No.					
Nominal Voltage				10-30 Vdc (-15/10%)				
Residual Ripple				< 10%				
Hysteresis				< 15%				
Max. Output Current	t			100 mA				
Min. Output Curren	t							
Residual Current				< 0,01 mA				
Voltage Drop				< 1,5 V				
Operation Led				Yellow				
Switching Frequence	су			2000 Hz				
Start Up Delay								
Repeatability				< 1%				
Short Circuit Protec	Short Circuit Protection			Present (self-resetting)				
Electric Protection				Against polarity reversal inductive loads				
Temperature Limit				(-25 +70 °C)				
Protection Degree				IP69K				
Cable Length				2 m (PUR)				
Cable Section				3x 0,15 mm²				
Housing Material				Stainless-Steel				
Active face				POM				
Tightening torque								
Weight - Cable Outp	out			50 g				
Weight - Connector	Output							

3 wires PNP or NPN



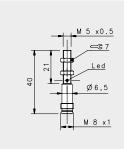
M8 3 pole

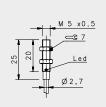


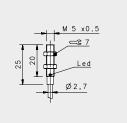
127 272 1	Contacts numbers				
Available	1 BROWN	3 HUE	HACK		
NPN/PNP	+	_	NO/NO		

STAINLESS STEEL M5





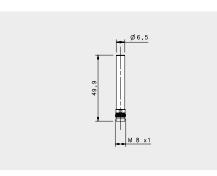


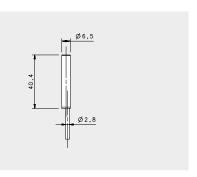


			_	STAN	STANDARD X2		
				FLL	JSH	FLUSH	
				M8 conn	cable	cable	
OMINAL SWITCHI	NG DISTANO	CE		0,8 mm	0,8 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires					
10-30 Vuc	NO-NC	4 WIIES	order No.				
10-30 Vdc	PNP	3 wires		IS-05-A1-S1	IS-05-A1-03		
10-30 vac	NO	2 MILE2	order No.	95B061051	95B061041		
10-30 Vdc	PNP	3 wires					
O SO Vac	NC	J WIICS	order No.				
10-30 Vdc	NPN	3 wires		IS-05-A3-S1	IS-05-A3-03	IS-05-E3-03	
10 30 Vac	NO	J WIICS	order No.	95B061031	95B061021	95B065400	
10-30 Vdc	NPN	3 wires			IS-05-A4-03		
10 30 Vac	NC	J WIICS	order No.		95B065420		
10-30 Vdc	PNP	4 wires					
O JO Vac	NO-NC	- vvil C3	order No.				
10-30 Vdc	NPN	4 wires					
5 50 vac	NO-NC	7 *************************************	order No.				
10-30 Vdc	NO-NC	2 wires					
. 5 50 vac		2 9911 (3	order No.				
20-250 Vac/Vdc	NO	2 wires					
20 250 vac/ vac	110	2 WIIC3	order No.				
20-250 Vac/Vdc	NC	2 wires					
250 140, 140	140	2 Wiles	order No.				
20-250 Vac	NO	2/3 wires					
250 140		275111105	order No.				
0-30 Vdc	Analog	3 wires					
. o 50 vac	0-20 mA	5 1165	order No.				
NAMUR amplifier	NAMUR	2 wires					
	order No.		order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
-				< 10%	< 10%	< 10%	
Residual Ripple Hysteresis				< 15%	< 15%	< 15%	
Max. Output Current	.			100 mA	100 mA	100 mA	
viax. Output Curreni Min. Output Curren				100 IIIA 	100 MA	100 MA	
Residual Current				< 0,01 mA	< 0,01 mA	< 0,01 mA	
/oltage Drop				< 1,5V	< 1,5V	< 1,5V	
Operation Led				Yellow	Yellow	Yellow	
Switching Frequenc	·v			2000 Hz	2000 Hz	2000 Hz	
Start Up Delay	· y			2000 HZ	2000 HZ	2000 112	
Repeatability				 < 1%	< 1%		
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
				Against polarity reversal	Against polarity reversal	Against polarity reversal	
Electric Protection				inductive loads	inductive loads	inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP69K	IP69K	IP69K	
Cable Length					2 m (PUR)	2 m (PUR)	
Cable Section					3x 0,15 mm²	3x 0,15 mm²	
Housing Material				Stainless-Steel	Stainless-Steel	Stainless-Steel	
Active face				POM	POM	POM	
Fightening torque				1,5 Nm	1,5 Nm	1,5 Nm	
Weight - Cable Outp					25g	25g	
Weight - Connector	Output			14g			

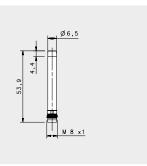
STAINLESS STEEL M6.5



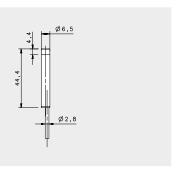




				SHORT STAINLESS STEEL FLUSH		
				M8 conn	cable	
OMINAL SWITCH	IING DISTANCI	E		1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP	3 wires		IS-65-M1-S1	IS-65-M1-03	
	NO		order No.	95B066080	95B064760	
10-30 Vdc 10-30 Vdc	PNP	3 wires	order No.	IS-65-M2-S1	IS-65-M2-03	
	NC			95B066120	95B064800	
	NPN			IS-65-M3-S1	IS-65-M3-03	
	NO		order No.	95B066000	95B064680	
10-30 Vdc	NPN	3 wires		IS-65-M4-S1	IS-65-M4-03	
	NC		order No.	95B066040 	95B064720 	
10-30 Vdc 10-30 Vdc	PNP NO-NC	4 wires 4 wires 2 wires	order No.			
	NPN		oruer IVO.			
	NO-NC		order No.			
			0.00.110.			
	NO-NC		order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC 2 v	2				
		2 wires	order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog	3 wires				
	0-20 mA		order No.			
NAMUR amplifier	NAMUR	2 wires				
			order No.			
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Current				200 mA	200 mA	
Min. Output Current						
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Frequency				1000 Hz	1000 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability Short Circuit Protection				< 3%	< 3%	
more encure Protection				Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP69K	IP69K	
Cable Length						
Cable Section					3x 0,14 mm²	
lousing Material				Stainless-Steel	Stainless-Steel	
ctive face				LCP	LCP	
Tightening torque						
Veight - Cable Out					80 g	
Weight - Connector Output				40 g		

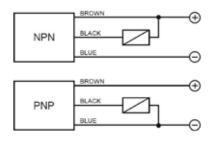


40 g



SHORT STAINLESS STEEL							
	NON FLUSH						
M8 conn	cable						
2 mm	2 mm						
IS-65-N1-S1	IS-65-N1-03						
95B066240	95B064920						
IS-65-N2-S1	IS-65-N2-03						
95B066280	95B064960						
IS-65-N3-S1	IS-65-N3-03						
95B066160	95B064840						
IS-65-N4-S1	IS-65-N4-03						
95B066200	95B064880						
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)						
< 10%	< 10%						
< 10%	< 10%						
200 mA	200 mA						
< 10 mA	< 10 mA						
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)						
Yellow	Yellow						
1000 Hz	1000 Hz						
< 50 ms	< 50 ms						
< 3%	< 3%						
Present (self-resetting)	Present (self-resetting)						
Against polarity reversal	Against polarity reversal						
inductive loads	inductive loads						
(−25 +70 °C)	(-25 +70 °C)						
IP69K	IP69K						
	3x 0,14 mm²						
Stainless-Steel	Stainless-Steel						
LCP	LCP						
	80 g						

3 wires PNP or NPN



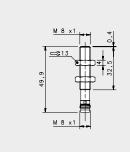
M8 3 pole

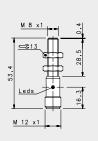


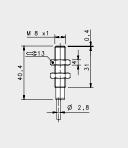
CONT	ACTS CON	FIGURAT	ION
0.000000000	Con	tacts non	bers
Available	1 BROWN	3 HUE	HACK
NPN/PNP	+	-	NONC

STAINLESS STEEL M8

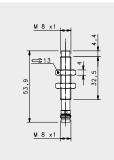


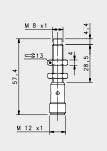


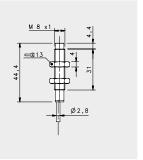




				SHORT STAINLESS STEEL				
					FLUSH			
				M8 conn	M12 conn	cable		
OMINAL SWITCH	IING DISTANC	E		1,5 mm	1,5 mm	1,5 mm		
10-30 Vdc	PNP/NPN	4 wires						
10-50 vac	NO-NC	4 WITES	order No.					
10-30 Vdc	PNP	3 wires		IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03		
10-30 vac	NO	2 MILE2	order No.	95B066870	95B066600	95B066380		
10-30 Vdc	PNP	3 wires		IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03		
	NC	5 WIICS	order No.	95B066900	95B066630	95B066600		
10-30 Vdc	NPN	3 wires		IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03		
	NO	J	order No.	95B066820	95B066540	95B066340		
0-30 Vdc	NPN	3 wires		IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03		
	NC		order No.	95B066840	95B066570	95B066360		
0-30 Vdc	PNP NO-NC	4 wires	order No.					
	NPN		order No.					
0-30 Vdc	NO-NC	4 wires	order No.					
			Oraci No.					
10-30 Vdc	NO-NC	2 wires	order No.					
			order No.					
:0-250 Vac/Vdc	NO	2 wires	order No.					
			order No.					
0-250 Vac/Vdc	NC	2 wires	order No.					
0.2501/	NO	2/2						
0-250 Vac	NO	2/3 wires	order No.					
0.201/4-	Analog	2i						
0-30 Vdc	0-20 mA	3 wires	order No.					
IAMIID amplifior	NAMID	2 wires						
IAMUR amplifier	NAMUR	2 wires	order No.					
Jominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%	< 10%		
lysteresis				< 10%	< 10%	< 10%		
Nax. Output Currei	nt			200 mA	200 mA	200 mA		
viax. Output Currei Vin. Output Curre				200 IIIA		200 IIIA		
Residual Current				< 10 mA	< 10 mA	< 10 mA		
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)		
peration Led				Yellow	Yellow	Yellow		
witching Frequer	ncv			1000 Hz	1000 Hz	1000 Hz		
itart Up Delay	•			< 50 ms	< 50 ms	< 50 ms		
Repeatability				< 3%	< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal	Against polarity reversal		
Composatives Lie-14					inductive loads	inductive loads (-25 +70 °C)		
emperature Limit				(-25 +70 °C) IP69K	(-25 +70 °C) IP69K	(-25 +/0 °C) IP69K		
Protection Degree Table Length				1P69K 	1P69K 	1P69K		
able Length Table Section					 	3x 0,14 mm²		
Housing Material				Stainless-Steel	Stainless-Steel	Stainless-Steel		
Active face				Stamless-Steel LCP	LCP	LCP		
Tightening torque				4Nm	4Nm	4Nm		
Neight - Cable Out	nut			4NIII 	4/////	4\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Weight - Cable Out Weight - Connecto				 35g	 55g			

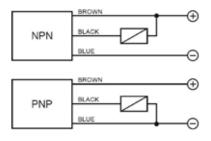






	SHORT STAINLESS STEE	L
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
 IS-08-N1-S1	 IS-08-N1-S2	 IS-08-N1-03
95B066980	95B066710	95B066490
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03
95B067010	95B066730	95B066510
IS-08-N3-S1	IS-08-N3-S2	IS-08-N3-03
95B066930	95B066660	95B066440
IS-08-N4-S1	IS-08-N4-S2	IS-08-N4-03
95B066950	95B066680	958066470
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K	IP69K
		3x 0,14 mm²
Stainless-Steel	Stainless-Steel	Stainless-Steel
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



Available		Contacts	numbers	
	1	2	3	4
(NO or NC)	+		777	NOING

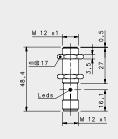
M8 3 pole

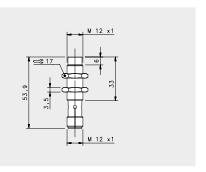


	Con	tacts nur	bers
Available	1 BROWN	3 HUE	HACK
NPN/PNP	+	_	NO/NO

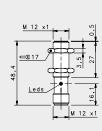
STAINLESS STEEL M12

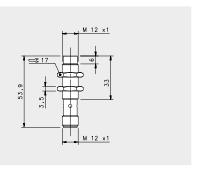






				SHORT STAINLESS STEEL			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCHI	ING DISTANC	E		2 mm	4 mm		
10.201/1	PNP/NPN	, .					
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires		IS-12-M1-S2	IS-12-N1-S2		
10-30 vac	NO	2 MILE2	order No.	95B060240	95B060280		
10-30 Vdc	PNP	3 wires		IS-12-M2-S2	IS-12-N2-S2		
	NC	5	order No.	95B060250	95B060290		
10-30 Vdc	NPN	3 wires		IS-12-M3-S2	IS-12-N3-S2		
	NO		order No.	95B060260	95B060300		
10-30 Vdc	NPN	3 wires		IS-12-M4-S2	IS-12-N4-S2		
	NC		order No.	95B060270	95B060310		
10-30 Vdc	PNP NO-NC	4 wires					
			order No.				
10-30 Vdc	NPN NO-NC	4 wires					
	INO-INC		order No.				
10-30 Vdc	NO-NC	2 wires					
			order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3wires					
			order No.				
10-30 Vdc	Analog	3 wires					
	0-20 mA		order No.				
NAMUR amplifier	NAMUR	2 wires					
'			order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 10%	< 10%		
, Max. Output Curren	t			200 mA	200 mA		
Min. Output Curren							
Residual Current				< 10 mA	< 10 mA		
/oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)		
Operation Led				Yellow	Yellow		
Switching Frequenc	CV			1000 Hz	1000 Hz		
Start Up Delay	- 1			< 50 ms	< 50 ms		
Repeatability				< 3%	< 3%		
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)		
Protection Degree				IP69K	IP69K		
Table Length							
Table Section							
Housing Material				Stainless-Steel	Stainless-Steel		
Active face				LCP	LCP		
Fightening torque				10Nm	10Nm		
	out						
Weight - Cable Outp				60 g	60 g		





### M12 con ### M13 con ### M13 con ### M14 con ### M15 con ### M	SHORT STAIN	ILESS STEEL X2
4 mm 8 mm		
S-12-01-52	M12 conn	M12 conn
15-12-01-52 15-12-P1-52 95B660000 95B6600000 95B66000000 95B6600000 95B6600000000000000000000000000000000000	4 mm	8 mm
15-12-01-52 15-12-P1-52 958060000 958060004 15-12-02-52 15-12-P2-52 958060010 958060050 15-12-03-52 15-12-P3-52 958060020 958060020 958060020 958060020 15-12-04-52 15-12-P4-52 958060020 958060070 15-12-04-52 15-12-P4-52 958060070 15-12-04-52 15-12-P4-52 958060070 15-12-P4-52 15-12-P4-5		
95B060000 15-12-02-52 15-12-02-52 95B060010 15-12-03-52 95B060020 95B060000 15-12-04-52 95B060030 95B060030 95B060070		
	IS-12-01-S2	IS-12-P1-S2
95B060010 IS-12-03-52 95B060020 IS-12-03-52 95B060020 IS-12-04-52 95B060030 95B060070		
958060020 IS-12-04-52 958060030 958060070		
IS-12-04-52		
958060030 958060070		
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10% 10% 10% 10% 10% 10% 10% 10% 200 mA 200 mA 10 mA 10 mA 11,2 V (l=100mA) 11,		
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10% 10% 10% 10% 200 mA 200 mA 10 mA 10 ma 10		
10-30 Vdc (-15/10%)		
< 10%		
< 10%		
< 10%		
200 mA		
< 10 mA < 1,2 V (I=100mA) Yellow Fellow 500 Hz < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP69K IP69K Stainless-Steel Stainless-Steel Stainless-Steel < 10 mA Yellow Yellow Yellow Yellow Yellow 49a Against polarity reversal inductive loads (-25 +70 °C) IP69K IP69K IP69K Stainless-Steel Stainless-Steel		
< 10 mA		
< 1,2 V (I=100mA)		
Yellow 500 Hz 500 Hz 75 ms 75		
<pre>< 75 ms</pre>		
< 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP69K IP69K IP69K IP69 IP69K Stainless-Steel Stainless-Steel Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) (-25 +70 °C) IP69K IP69K IP69K Stainless-Steel Stainless-Steel	500 Hz	500 Hz
Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP69K IP69K IP69K IP69C Stainless-Steel Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) (-25 +70 °C) IP69K IP69K Stainless-Steel	< 75 ms	< 75 ms
Against polarity reversal inductive loads inductive loads (-25 +70 °C) (-25 +70 °C) IP69K IP69K Stainless-Steel Stainless-Steel		
inductive loads (-25 +70 °C) (-25 +70 °C) (-26 +70 °C) (-27 +70 °C) (-28 +70 °C) (-29 +70 °C) (-20	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 3
IP69K IP69K Stainless-Steel Stainless-Steel	inductive loads	Against polarity reversal inductive loads
Stainless-Steel Stainless-Steel		
Stainless-Steel Stainless-Steel		
Stainless-Steel Stainless-Steel		
LCD	Stainless-Steel LCP	Stainless-Steel LCP
10Nm 10Nm		
60 g 60 g		

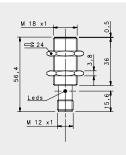
M12 3 pole

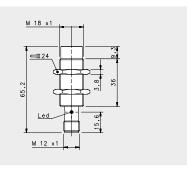


Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		723	NO/NO

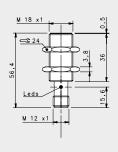
STAINLESS STEEL M18

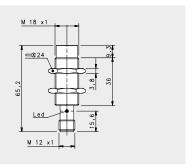






				SHORT STAINLESS STEEL			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	HING DISTANC	Έ		5 mm	8 mm		
10-30 Vdc	PNP/NPN	/inaa					
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires		IS-18-M1-S2	IS-18-N1-S2		
10 30 vac	NO	5 111105	order No.	95B060320	95B060360		
10-30 Vdc	PNP	3 wires		IS-18-M2-S2	IS-18-N2-S2		
	NC		order No.	95B060330	958060370		
10-30 Vdc	NPN	3 wires		IS-18-M3-S2	IS-18-N3-52		
	NO		order No.	958060340	95B060380		
10-30 Vdc	NPN NC	3 wires	order No.	IS-18-M4-S2 95B060350	IS-18-N4-S2 95B060390		
			order No.	958060350			
10-30 Vdc	PNP NO-NC	4 wires	order No.				
			order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
			order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
			oraci ivo.				
20-250 Vac/Vdc	NO	2 wires	order No.	 -			
			oraci ivo.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			Order 140.				
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 10%	< 10%		
Max. Output Curre				200 mA	200 mA		
Min. Output Curre	ent						
Residual Current				< 10 mA	< 10 mA		
Voltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)		
Operation Led				Yellow	Yellow		
Switching Freque	ncy			1000 Hz	1000 Hz		
Start Up Delay				< 50 ms	< 50 ms		
Repeatability				< 3%	< 3%		
Short Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)		
Electric Protection	n			Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +70 °C)	(-25+70 °C)		
Protection Degree Cable Length				IP69K 	IP69K 		
Cable Length Cable Section							
Housing Material Active face				Stainless-Steel LCP	Stainless-Steel LCP		
Tightening torque				30Nm	30Nm		
Weight - Cable Ou				30IVIII	301/111		
Weight - Capie Ou Weight - Connecto				95g	95g		
Meight - Connecto	n Output			jog s	אכב		





SHORT STAI	NLESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
IS-18-01-S2	IS-18-P1-S2
95B060080	95B060120
IS-18-02-S2	IS-18-P2-S2
95B060090	95B060130
IS-18-03-S2	IS-18-P3-S2
95B060100	95B060140
IS-18-04-S2	IS-18-P4-S2
95B060110	95B060150
	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA 	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
30Nm 	30Nm
	95g

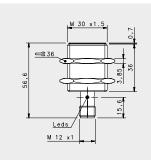
M12 3 pole

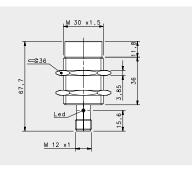


C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
	-1	2	3	4
(NO or NC)	+		77.0	NOING

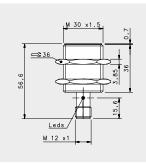
STAINLESS STEEL M30

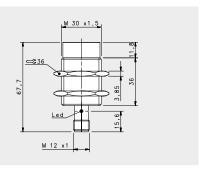






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12	
OMINAL SWITCH	IING DISTANCI	E		10 mm	15 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC PNP		order No.	 IS-30-M1-S2	 IS-30-N1-S2	
10-30 Vdc	NO	3 wires	order No.	95B060400	95B060440	
10-30 Vdc	PNP NC	3 wires	order No.	IS-30-M2-52 95B060410	IS-30-N2-52 95B060450	
10-30 Vdc	NPN	3 wires		IS-30-M3-S2	IS-30-N3-S2	
	NO	J 11c3	order No.	95B060420	95B060460	
10-30 Vdc	NPN NC	3 wires	order No.	IS-30-M4-S2 95B060430	IS-30-N4-S2 95B060470	
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN	4 wires				
- · · ·	NO-NC		order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
:0-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
0-30 Vdc	Analog	3 wires				
10-30 Vac	0-20 mA	-20 mA	order No.			
IAMUR amplifier	NAMUR	2 wires	2 wires	order No.		
			order 140.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre				200 mA	200 mA	
/lin. Output Curre	nt					
Residual Current				< 10 mA	< 10 mA	
/oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
Operation Led				Yellow	Yellow	
witching Frequer	ncy			300 Hz	300 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(−25 +70 °C)	
Protection Degree				IP69K	IP69K	
Table Length						
Table Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				LCP	LCP	
Fightening torque				60Nm	60Nm	
Weight - Cable Out	put					
Weight - Connecto				170 g	170 g	





SHORT STAIL	NLESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
IS-30-01-S2	IS-30-P1-S2
95B060160	95B060200
IS-30-02-S2	IS-30-P2-S2
95B060170	95B060210
IS-30-03-S2	IS-30-P3-S2
95B060180	95B060220
IS-30-04-S2	IS-30-P4-S2
95B060190	95B060230
	
	
	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
60Nm 	60Nm
170 g	170 g

M12 3 pole



CACCOMPRISE !		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		777	NOING

METAL FACE

Stainless Steel housing
Stainless Steel AISI 303 active face
Standard length

2 ... 8 mm

M12, M18

M12 connector

3 wires

PNP, NO

IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

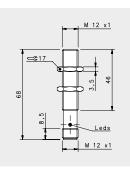
IIIIII B 250°C Shuber 16.35°C ...

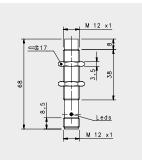




METAL FACE M12



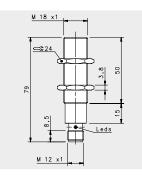


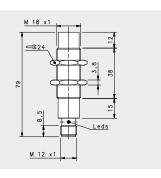


				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
OMINAL SWITCH	HING DISTANC	E		2 mm	4 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-12-I1-S2 95B065340	IS-12-L1-S2 95B063871	
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires				
10-30 Vdc	NPN	3 wires	order No.			
10-30 Vdc	NC PNP	4 wires	order No.			
10-30 Vdc	NO-NC NPN	4 wires	order No.			
	NO-NC		order No.		 	
10-30 Vdc	NO-NC	2 wires	order No.	 		
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.		 	
Iominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
lysteresis				< 15%	< 15%	
Nax. Output Curre	nt			200 mA	200 mA	
Max. Output Curre Min. Output Curre						
lesidual Current				< 0,01 mA	< 0,01 mA	
oltage Drop				< 1,5 V (I=100mA)	< 1,5 V (I=100mA)	
peration Led				Present	Present	
Switching Freque	nev			2000 Hz	1000 Hz	
Start Up Delay	iicy			2000 112		
Repeatability				< 1%	< 1%	
Repeatability Short Circuit Prote	action			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				(-25 +70 °C) IP67	(-25 +70 C) IP67	
able Length				iF0/ 	iP0/	
able Section						
				 Stainless-Steel		
Housing Material					Stainless-Steel	
Active face				Stainless Steel AISI 303	Stainless Steel AISI 303	
ightening torque				10Nm	10Nm	
Weight - Cable Out						
Weight - Connecto	r Output			30 g	30 g	

METAL FACE M18







				METAL FACE							
				FLUSH	NON FLUSH						
				M12 conn	M12 conn						
NOMINAL SWITCH	HING DISTANCI	E		5 mm	8 mm						
10-30 Vdc	PNP/NPN	4 wires									
10-30 Vac	NO-NC	4 wires	order No.								
10-30 Vdc	PNP	3 wires		IS-18-I1-S2	IS-18-L1-S2						
10-30 vac	NO	2 MIIC2	order No.	95B065350	95B063881						
10-30 Vdc	PNP	3 wires									
	NC	5 11	order No.								
10-30 Vdc	NPN	3 wires									
	NO		order No.								
10-30 Vdc	NPN NC	3 wires	and an Na								
			order No.								
10-30 Vdc	PNP NO-NC	4 wires	order No.								
	NPN		order No.								
10-30 Vdc	NO-NC	4 wires	order No.								
			order No.								
10-30 Vdc	NO-NC	2 wires	order No.								
			order No.								
20-250 Vac/Vdc	NO	2 wires	order No.								
			oraci iioi								
20-250 Vac/Vdc	NC	2 wires	2 wires	2 wires	2 wires	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.								
40.2014-	Analog	3 wires	2	2	2	<u>.</u>	<u> </u>				
10-30 Vdc	0-20 mA		order No.								
NAMUR amplifier	NAMUR	R 2 wires	2 minas	2	2	2					
NAMOR ampliner	IVAIVIUR		order No.								
Nominal Voltage				10-30 Vdc	10-30 Vdc						
Residual Ripple				< 10%	< 10%						
Hysteresis				< 15%	< 15%						
Max. Output Curre				200 mA	200 mA						
Min. Output Curre	ent			> 1,6 mA	> 1,6 mA						
Residual Current				< 0,01 mA	< 0,01 mA < 1,5 V						
Voltage Drop Operation Led				< 1,5 V Present	۲٫۵ ۷ Present						
Switching Freque	nev			1000 Hz	500 Hz						
Start Up Delay	Ticy										
Repeatability				< 1%	< 1%						
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)						
				Against polarity reversal	Against polarity reversal						
Electric Protection	n			inductive loads	inductive loads						
Temperature Limit	t			(-25 +70 °C)	(-25 +70 °C)						
Protection Degree				IP67	IP67						
Cable Length											
Cable Section											
Housing Material				Stainless-Steel	Stainless-Steel						
Active face				Stainless Steel AISI 303	Stainless Steel AISI 303						
Tightening torque				10Nm	10Nm						
Weight - Cable Ou											
Weight - Connecto	or Output			95g	95g						

WELD FIELD IMMUNE

Stainless Steel housing
PTFE active face
Standard length
Operating distance 2 ... 8 mm
M12, M18
M12 connector
3 wires

REDUCTION FACTOR

IP67 protection

PNP, NO

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

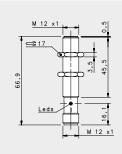


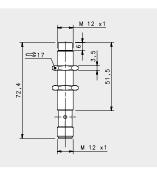


WELD FIELD IMMUNE

WELD FIELD IMMUNE M12



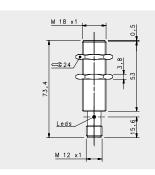


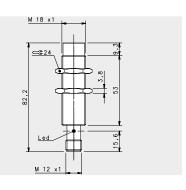


				FIELD IMMUNE STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	HING DISTANC	CE		2 mm	4 mm	
	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-F12-S1-S2	IS-F12-T1-S2	
10-30 Vac	NO	3 Wires	order No.	95B065360	95B065370	
10-30 Vdc	PNP	3 wires				
10-30 vac	NC	2 MII C3	order No.			
10-30 Vdc	NPN	3 wires				
	NO	5 1165	order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP NO-NC	4 wires				
			order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
	NO NC		order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
			oraci ivo.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
	Analog					
10-30 Vdc	0-20 mA	mA Swiles	order No.			
NAMES INC.	NAMES					
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Curre	nt			200 mA	200 mA	
Min. Output Curre	ent			< 10mA	< 10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Freque	ncy			2000 Hz	1000 Hz	
Start Up Delay				< 0,1 ms	< 0,1 ms	
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	า			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				PTFE	PTFE	
Tightening torque				10 Nm	10 Nm	
Weight - Cable Out						
Weight - Connecto	or Output			25g	23g	

WELD FIELD IMMUNE M18







				FIELD IMMUNE STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-F18-S1-S2	IS-F18-T1-S2	
	NO		order No.	95B065380	958065390	
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires				
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	andan Na			
			order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac7 Vuc	NO	2 WIIES	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.		 	
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog	3 wires				
10 30 140	0-20 mA	5 WIICS	order No.			
NAMUR amplifier	NAMUR	2 wires	- ud - u Ni-			
			order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Currer	nt			200 mA	200 mA	
Min. Output Currer	nt			< 10mA	< 10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Frequen	псу			1000 Hz	500 Hz	
Start Up Delay				< 0,2 ms	< 0,5 ms	
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(−25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				PTFE	PTFE	
Tightening torque				30 Nm	30 Nm	
Weight - Cable Out	put					
Weight - Connector	r Output			94g	91g	

INDUCTIVE AC

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5

HILL B. 250 Co. Salar Sept. Market Sept. 19.

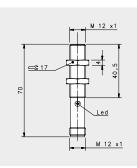


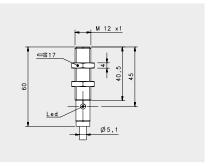




INDUCTIVE AC M12



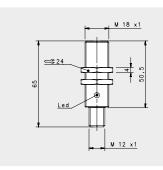


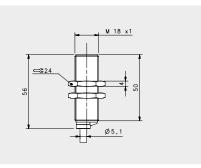


				STANDARD VAC		
				FLL	JSH	
				M12 conn	cable	
NOMINAL SWITCH	HING DISTAN	CE		2 mm	2 mm	
	PNP/NPN	1				
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10-30 vuc	NO	3 WIIES	order No.			
10-30 Vdc	PNP	3 wires				
	NC	5 11	order No.			
10-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN NC	3 wires	order No			
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
	NPN		order 140.			
10-30 Vdc	NO-NC	4 wires	order No.			
		1				
10-30 Vdc	NO-NC	2 wires	order No.			
20. 250 \/ /\/-	NO	2				
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires				
20-250 Vac7 Vuc	IVC	2 WITES	order No.			
20-250 Vac	NO	2/3 wires		IS-12-A15-S2	IS-12-A15-03	
20 250 vac	140		order No.	95B060690	95B060680	
10-30 Vdc	Analog					
	0-20 mA		order No.			
NAMUR amplifier	NAMUR	2 wires				
•			order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre	ent			20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Freque	ncy			25 Hz	25 Hz	
Start Up Delay				< 300 ms	< 300 ms	
Repeatability				5%	5%	
Short Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	า			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(−25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length					2 m	
Cable Section				Nichal alabad buran	2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Active face				PA 16	PA 16	
Tightening torque	tout			17Nm	17Nm	
Weight - Cable Ou Weight - Connector	•			 95g	145g 	
Meight - Connecto	ıı Output			ADE		

INDUCTIVE AC M18



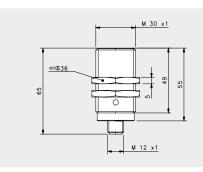




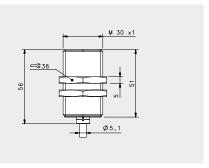
				STANDARD VAC		
					JSH	
				M12 conn	cable	
NOMINAL SWITCH	HING DISTANCE	Ē		5 mm	5 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP NO	3 wires	d N -			
			order No.	 		
10-30 Vdc	PNP NC	3 wires	order No.			
	NIDNI		order No.			
10-30 Vdc	NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	andar Na			
			order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
	NPN		oraci itoi			
10-30 Vdc	NO-NC	4 wires	order No.			
10.201//	NO NG					
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac/ Vuc	INO .	2 WIIES	order No.			
20-250 Vac/Vdc	NC :	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires		IS-18-A15-S2	IS-18-A15-03	
			order No.	95B060780 	95B060770 	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0 20 11111		order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre				500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre	ent			20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Freque	ncy			25 Hz	25 Hz	
Start Up Delay				< 300 ms 5%	< 300 ms 5%	
Repeatability Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	
Short Circuit Proti	ection			Against polarity reversal	Against polarity reversal	
Electric Protection				inductive loads	inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length					2 m	
Cable Section				Nielel wlated byses	2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Active face				PA 16	PA 16	
Tightening torque Weight - Cable Ou				40Nm 	40Nm 145g	
Weight - Connecto				95g	145g 	
Commette	Julpul			336		

INDUCTIVE AC M30



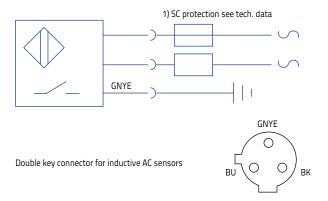


STANDARD VAC



				JIMIU	AND VAC	
				FLI	JSH	
				M12 conn	cable	
IOMINAL SWITCH	HING DISTAN	CE		10 mm	10 mm	
10. 20.1/1	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10. 20.1/4-	PNP	2				
10-30 Vdc	NO	3 wires	order No.			
10-30 Vdc	PNP	3 wires				
10 30 Vac	NC	J WIICS	order No.			
0-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
	PNP NO-NC	4 wires	d N -			
	-		order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
	140 /40		oruel No.			
10-30 Vdc	NO-NC	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
			oraci ivo.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			oraci itoi	IS-30-A15-S2	IS-30-A15-03	
20-250 Vac	NO	2/3 wires	order No.	95B060820	95B060810	
	Analog	3 wires				
0-30 Vdc	0-20 mA		order No.			
HANALID III	NIANALID	2 wires				
NAMUR amplifier	NAMUR		order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre				500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Curre	ent			20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
/oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
witching Frequer	ncy			25 Hz	25 Hz	
Start Up Delay				< 300 ms	< 300 ms	
Repeatability				5%	5%	
Short Circuit Prote	eccion			Present (self-resetting)	Present (self-resetting)	
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP67	IP67	
able Length					2 m	
able Section					2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Active face				PA 16	PA 16	
ightening torque				70Nm	70Nm	
Weight - Cable Out					145g	
Weight - Connecto	r Output			95g		

INDUCTIVE AC



NAMUR

Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

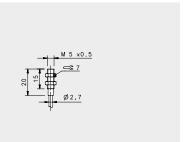


M12/18/30 FLUSH models are ATEX certified II3G EX nA II T6 113D EX tD A22 IP67 T85°C



NAMUR





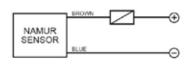
NAMUR	
FLUSH	
cable	

NOMINAL S	WITCHING	DISTANCE
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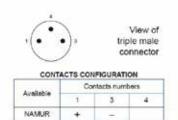
OMINAL SWITCHING DISTANCE				0,8 mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.	IS-05-A20-03 95B065410		

Nominal Voltage	6+ 12 V DC
Residual Ripple	
Hysteresis	< 10%
Max. Output Current	< 3 mA (metal absent)
Min. Output Current	< 1 mA (metal present)
Residual Current	
Voltage Drop	
Operation Led	
Switching Frequency	2000 Hz
Start Up Delay	< 10 ms
Repeatability	
Short Circuit Protection	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)
Protection Degree	IP67
Cable Length	2 m (PVC)
Cable Section	2x 0,15 mm²
Housing Material	Stainless-Steel
Active face	LCP
Tightening torque	1,5Nm
Weight - Cable Output	25g
Weight - Connector Output	

2 wires NAMUR

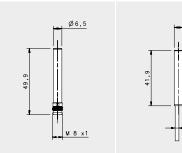


M8 2 wires NAMUR

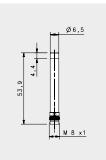


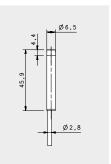
NAMUR M6.5





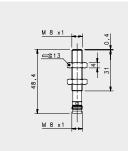


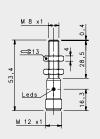


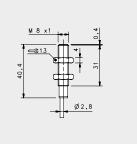


					NAI	MUR	
				FLU	JSH	NON I	LUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITCHING	G DISTANO	CE		1 mm	1 mm	2 mm	2 mm
	NP/NPN	4 wires					
IN N	NO-NC	4 WIICS	order No.				
10-30 Vac	NP NO	3 wires	order No.				
10-30 Vdc	NP	3 wires					
10-30 vac N	IC	5 WILES	order No.				
	IPN	3 wires					
	10		order No.				
	IPN IC	3 wires					
			order No.				
	NP NO-NC	4 wires	order No.				
	NDN		order No.				
	NO-NC	4 wires	order No.				
			order No.				
10-30 Vdc N	NO-NC	2 wires	order No.				
			order ivo.				
20-250 Vac/Vdc N	10	2 wires	order No.				
			order ivo.				
20-250 Vac/Vdc N	IC .	2 wires	order No.				
20-250 Vac N	10	2/3 wires	order No.				
10-30 Vdc	Analog	3 wires					
10-50 Vuc 0)-20 mA	5 WITES	order No.				
NAMUR amplifier N	NAMUR	2 wires		IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03
NAMOR amplifier IN	VAIVIOR	2 WIIES	order No.	95B066310	95B066290	95B066320	95B066300
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				< 3 mA (metal absent)			
Min. Output Current				< 1 mA (metal present)			
Residual Current							
Voltage Drop							
Operation Led							
Switching Frequency				2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay							
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	on			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads			
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2x 0,25 mm²		2 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Weight - Cable Output	t				80 g		80 g
Weight - Connector Ou				40 g		40 g	
				U		U	

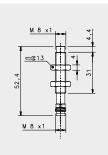


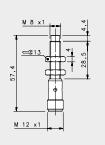


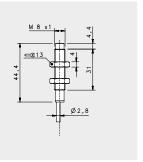




					NAMUR	
					FLUSH	
				M8 conn	M12 conn	cable
OMINAL SWITCH	IING DISTANO	Œ		1 mm	1 mm	1 mm
	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10. 20.1/1	PNP	<u>.</u>				
10-30 Vdc	NO	3 wires	order No.			
10-30 Vdc	PNP	3 wires				
10-30 vac	NC	2 MILE2	order No.			
10-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP NO-NC	4 wires	and an Na			
			order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
			OIUCI NU.			
10-30 Vdc	NO-NC	2 wires	order No.			
			order rvo.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
00.2501/	NO	2/2				
20-250 Vac	NO	2/3 wires	order No.			
0-30 Vdc	Analog	og mA 3 wires				
10-30 Vut	0-20 mA		order No.			
NAMUR amplifier	NAMUR	2 wires	·es	IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03
www.circumpinier	INAIVIUR	2 Wiles	order No.	95B066780	95B066760	95B066740
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Currer Min. Output Curre				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Residual Current	IIL			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
/oltage Drop					 	
Operation Led						
Switching Frequer	ncv			2000 Hz	2000 Hz	2000 Hz
Start Up Delay	icy					
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67
able Length						2 m
able Section						2x 0,25 mm²
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP
ightening torque				4Nm	4Nm	4Nm
Weight - Cable Out						80 g
Weight - Connector	r Output			35g	55g	

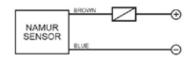






	NAMUR	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
		
		
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03
95B066790	95B066770	95B066750
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
2000 Hz	2000 Hz	2000 Hz
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67
		2 m
Niekal plated byses	Niekal plated byzas	2 x 0,25 mm²
Nickel-plated brass LCP	Nickel-plated brass LCP	Nickel-plated brass LCP
4Nm	4Nm	4Nm
411111	→IVIII	80 g
35g	55g	
0	·-o	

2 wires NAMUR

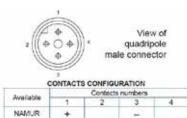


M8 2 wires NAMUR

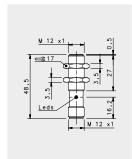


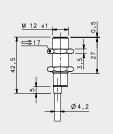
CONTA	ACTS COM	FIGURATION	ON	
	Contacts numbers			
Available	1	3	4	
NAMUR	+	-		

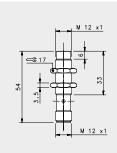
M12 2 wires NAMUR

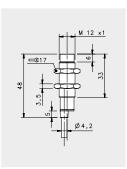






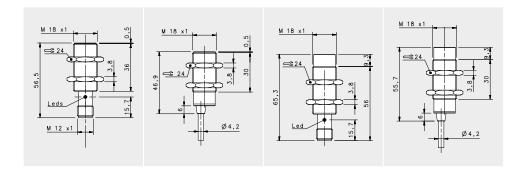






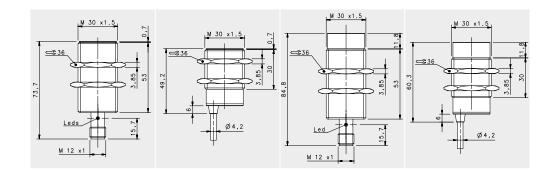
				NAMUR				
				FLL	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4mm	4mm	
10-30 Vdc	PNP/NPN	4 wires						
10-50 Vac	NO-NC	4 WII es	order No.					
10-30 Vdc	PNP	3 wires						
	NO	J 11C3	order No.					
10-30 Vdc	PNP	3 wires						
	NC		order No.					
10-30 Vdc	NPN NO	3 wires	audau Na					
			order No.					
10-30 Vdc	NPN NC	3 wires	order No.					
	PNP		order No.					
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN		oraci ivo.					
0-30 Vdc	NO-NC	4 wires	order No.					
			2.22.740					
10-30 Vdc	NO-NC	2 wires	order No.					
		Ī						
20-250 Vac/Vdc	NO	2 wires	order No.					
20. 250.1/ /1/-	NC	2						
20-250 Vac/Vdc	NC	2 wires	order No.					
:0-250 Vac	NO	2/3wires						
10-250 Vac	INO	2/3 WIIES	order No.					
0-30 Vdc	Analog							
10-30 Vuc	0-20 mA		order No.					
NAMUR amplifier	NAMIIR	AMUR 2 wires		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03	
traviore ampliner	TW/ III/IOTY		order No.	95B064180	95B064160	95B064190	95B064170	
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 +9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
lysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Currer				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
oltage Drop Operation Led								
Switching Frequer	ncv.			2000 Hz	2000 Hz	2000 Hz	2000 Hz	
Start Up Delay	icy			2000 112	2000112	2000 112	2000112	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection		Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads			
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
Table Section					2 x 0,25 mm^2		2 x 0,25 mm^2	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
ightening torque				10Nm	10Nm	10Nm	10Nm	
Weight - Cable Out	put				110 g		110 g	
Weight - Connecto	r Output			60 g		60 g		





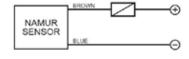
				NAMUR				
				FLL	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		5mm	5mm	8mm	8mm	
10-30 Vdc	PNP/NPN	/ vuinaa						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	3 wires						
10 30 vac	NO	J WIICS	order No.					
10-30 Vdc	PNP	3 wires						
	NC		order No.					
10-30 Vdc	NPN NO	3 wires	audau Na					
			order No.					
10-30 Vdc	NPN NC	3 wires	order No.					
	PNP		order No.					
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN		0.000					
10-30 Vdc	NO-NC	4 wires	order No.					
10 20 //4*	NO NC	2						
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/ Vuc	INU	2 WII es	order No.					
20-250 Vac/Vdc	NC	2 wires						
250 vac, vac	140	2 Wiles	order No.					
20-250 Vac	NO	2/3 wires						
			order No.					
0-30 Vdc	Analog 0-20 mA	3 wires						
	0-20 IIIA		order No.	 IC 40 A20 C2	 IC 10 A20 02	 IS-18-C20-S2	 IS-18-C20-03	
NAMUR amplifier	NAMUR		order No.	IS-18-A20-S2 95B064380	IS-18-A20-03 95B064360	95B064390	95B064370	
			oraci ivo.	335004300	330004300	335004330	330004370	
Nominal Voltage				7,7 + 9 V DC				
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Currer	nt			< 3 mA (metal absent)				
Min. Output Curre	nt			< 1 mA (metal present)				
Residual Current								
/oltage Drop								
Operation Led								
Switching Frequen	ıcy			1000 Hz	1000 Hz	1000 Hz	1000 Hz	
Start Up Delay								
Repeatability Short Circuit Prote	stion			< 3%	< 3% Present (self-resetting)	< 3% Present (self-resetting)	< 3%	
Short Circuit Prote	CLION			Present (self-resetting)	, ,	_	Present (self-resetting	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Table Length					2 m		2 m	
Table Section				Niekel plated byses	2 x 0,25 mm²	Niekal plated byses	2 x 0,25 mm²	
Housing Material Active face				Nickel-plated brass LCP	Nickel-plated brass LCP	Nickel-plated brass LCP	Nickel-plated brass LCP	
Fightening torque				30Nm	30Nm	30Nm	30Nm	
Neight - Cable Out	nut			3UNIII 	30MH 145g	3UNIII 	145g	
Weight - Capie Out Weight - Connector	•			95g	145g 	95g	145g	



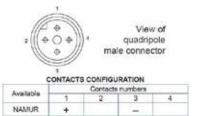


				NAIVIUR				
				FLU	ISH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
OMINAL SWITCH	IING DISTAN	CE		10mm	10mm	15mm	15mm	
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC PNP		order No.		 			
10-30 Vdc	NO	3 wires	order No.					
0-30 Vdc	PNP NC	3 wires	order No.					
0-30 Vdc	NPN	3 wires						
	NO NPN		order No.					
0-30 Vdc	NC	3 wires	order No.					
0-30 Vdc	PNP NO-NC	4 wires	order No.					
10. 20.1/4-	NPN	/iva-						
0-30 Vdc	NO-NC	4 wires	order No.					
0-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires						
0-250 Vac7 Vuc	NO	2 WIIES	order No.					
0-250 Vac/Vdc	NC	2 wires	order No.					
0.2501/	NO	2/2	Order IVO.					
0-250 Vac	NO	2/3wires	order No.					
0-30 Vdc	Analog 0-20 mA	3 wires	order No.					
IANALID IIC	NAMUR	2 wires	Order 140.	IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03	
IAMUR amplifier			order No.	95B064630	95B064610	95B064640	95B064620	
Iominal Voltage				7,7 + 9 V DC				
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
lysteresis				< 10%	< 10%	< 10%	< 10%	
1ax. Output Curre	nt			< 3 mA (metal absent)				
lin. Output Curre				< 1 mA (metal present)				
esidual Current								
oltage Drop								
peration Led								
witching Frequer	ncy			500 Hz	500 Hz	500 Hz	500 Hz	
tart Up Delay								
Repeatability		< 3%	< 3%	< 3%	< 3%			
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,25 mm²		2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				60Nm	60Nm	60Nm	60Nm	
Weight - Cable Output					210 g		210 g	
Weight - Connecto	r Output			170 g		170 g		

2 wires NAMUR



M12 2 wires NAMUR



SOUARE

PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS	
Average red. Fact.	0,45	0,85	0,4	0,5	

HILL BESTER SHARES SERVED.

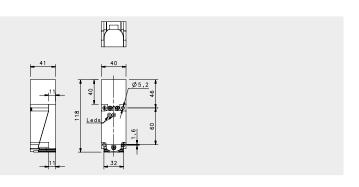


*IS-88 models only

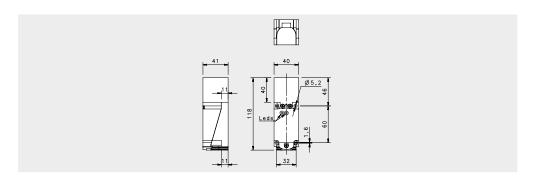


SOUARE 40X40





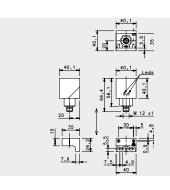
				40X40			
				FLUSH	NON FLUSH		
				Terminal Block	Terminal Block		
NOMINAL SWITCHING DISTANCE				15 mm	30mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
10-30 Vdc	PNP NC	3 wires	order No.				
10-30 Vdc	NPN NO	3 wires	order No.				
10-30 Vdc	NPN NC	3 wires	order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.	IS-40-W5-S3 95B065240	IS-40-Y5-S3 95B065280		
10-30 Vdc	NPN NO-NC	4 wires	order No.	95B065240 IS-40-W6-S3 95B065230	95B065260 IS-40-Y6-S3 95B065270		
10-30 Vdc	NO-NC	2 wires	order No.		 		
20-250 Vac/Vdc	NO	2 wires	order No.		 		
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3wires	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
			1				
Iominal Voltage				10-30 Vdc	10-30 Vdc		
Residual Ripple				< 10%	< 10%		
lysteresis				< 15% (Sr)	< 15% (Sr)		
Nax. Output Currer	nt			200mA	200mA		
Min. Output Curre	nt						
Residual Current				< 0,01 mA	< 0,01 mA		
/oltage Drop				< 1,5V	< 1,5V		
Operation Led				YES	YES		
Switching Frequer	ncv			100 Hz	100 Hz		
Start Up Delay	- 1						
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)		
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25+75C) (-25+75 °C)			
Protection Degree				(-25 +/3C) (-25 +/3 C)			
Cable Length							
Cable Section				PBT (RESIN)			
Housing Material Weight - Cable Output				PBT (RESIN)	PBT (RESIN)		
Weight - Connector Output				262g	262g		

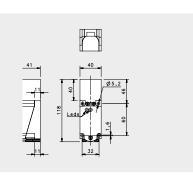


40X40 VAC/VDC						
FLUSH	NON FLUSH					
Terminal Block	Terminal Block					
15 mm	30mm					
						
IS-40-W7-S3	IS-40-Y7-S3					
95B065250	95B065290					
IS-40-W8-S3	IS-40-Y8-S3					
95B065260	95B065300					
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz					
< 10%	< 10%					
< 15% (Sr)	< 15% (Sr)					
200mA	200mA					
< 2,5mA	< 2,5mA					
< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc					
YES	YES					
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC					
< 1.0% (Sr)	< 1.0% (Sr)					
Present (self-resetting)	Present (self-resetting)					
Against polarity reversal inductive loads	Against polarity reversal inductive loads					
(-25 +70 °C)	(-25 +70 °C)					
IP67	IP67					
PBT (RESIN)	PBT (RESIN)					
262g	262g					

SOUARE 40X40



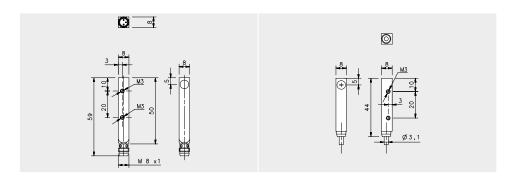




				SHORT	ANALOG OUTPUT
				FLUSH	NON FLUSH
				M12 conn.	Terminal Block
NOMINAL SWITCH	IING DISTANCE			15mm	7-20mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP .	3 wires			
10-30 vac	NO .	5 WILES	order No.		
10-30 Vdc	PNP .	3 wires			
	NC		order No.		
10-30 Vdc	NPN NO	3 wires	audau Na		
			order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
	DNID		order 140.	IS-40-X5-S2	
10-30 Vdc	NO-NC	4 wires	order No.	95B065320	
10.201/1	NPN	, .		IS-40-X6-S2	
10-30 Vdc	NO-NC	4 wires	order No.	95B065310	
10-30 Vdc	NO-NC	2 wires			
10-30 Vuc	NO-INC .	Z WIIES	order No.		
20-250 Vac/Vdc	NO :	2 wires			
230 140, 140		2	order No.		
20-250 Vac/Vdc	NC :	2 wires			
			order No.	 	
20-250 Vac	NO :	2/3 wires	order No.		
	Analog		order No.		IS-40-C11-S3
10-30 Vdc	0-20 mA	3 wires	order No.		95B065330
			oraci itoi		
NAMUR amplifier	NAMUR :	2 wires	order No.		
Nominal Voltage				10-30 Vdc	18-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15% (Sr)	< 10%
Max. Output Curre	nt			200mA	0-20mA/200 Ω Max.
Min. Output Curre					
Residual Current				< 0,01mA	
/oltage Drop				< 1,5V	
Operation Led				YES	
Switching Frequer	псу			100 Hz	100 Hz
Start Up Delay					
Repeatability				< 1.0% (Sr)	0,02 mm
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					
Cable Section				PDT (PECIN)	PDT (DECIN)
Housing Material				PBT (RESIN)	PBT (RESIN)
Weight - Cable Out					2/.2a
Weight - Connecto	r Output			170 g	242g

SOUARE 8X8





				SHORT			
				FLL	JSH .		
				M8 conn	cable		
OMINAL SWITCH	IING DISTAN	CE		1,5mm	1,5mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
0-30 Vdc	PNP	3 wires		IS-88-Q1-S1	IS-88-Q1-03		
	NO PNP		order No.	95B060840 	95B060830 		
0-30 Vdc	NC	3 wires	order No.				
0-30 Vdc	NPN NO	3 wires	order No.				
0-30 Vdc	NPN NC	3 wires	order No.				
0-30 Vdc	PNP	4 wires	order No.				
J-30 vac	NO-NC	4 WIIES	order No.				
0-30 Vdc	NPN NO-NC	4 wires	order No.	 			
0-30 Vdc	NO-NC	2 wires	order No.				
0-250 Vac/Vdc	NO	2 wires	Order No.				
U-250 VaC/ VuC	NU	2 wires	order No.				
0-250 Vac/Vdc	NC	2 wires	order No.				
0-250 Vac	NO	2/3 wires	andan Na				
2 20 1/4-	Analog	3 wires	order No.	 			
0-30 Vdc	0-20 mA	3 wires	order No.				
IAMUR amplifier	NAMUR	2 wires	order No.	 			
lominal Valtage			<u> </u>	40.70.14-	10.70 //-		
ominal Voltage esidual Ripple				10-30 Vdc < 10%	10-30 Vdc < 10%		
				< 10% (Sr)	< 10% < 10% (Sr)		
ysteresis	- 4						
lax. Output Currer				200mA 	200mA 		
lin. Output Curre esidual Current	IIL						
				 < 1,2V	 < 1,2V		
oltage Drop				Yellow			
peration Led witching Frequer	2614			500 Hz	Yellow 500 Hz		
_	icy						
art Up Delay				75 ms < 3%	75 ms < 3%		
epeatability nort Circuit Prote				Present (self-resetting)	Present (self-resetting)		
ectric Protection				Against polarity reversal	Against polarity reversal		
emperature Limit				inductive loads (-25 +70 °C)	inductive loads (-25 +70 °C)		
rotection Degree				IP67	IP67		
able Length					2 m		
able Section							
					3x0,14mm²		
lousing Material				nickel-plated brass	nickel-plated brass		
Veight - Cable Out					80 g		
Veight - Connector	r Output			40 g			

CAPACITIVE

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18. M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn







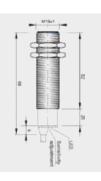


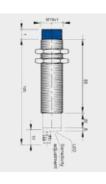
CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

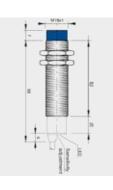
CAPACITIVE BASIC M18







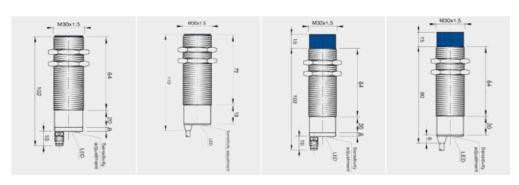




					STAN	DARD			
				FLL	JSH	NON FLUSH			
				M8 conn	cable	M8 conn	cable		
IOMINAL SWITCH	IING DISTAN	CE		15 mm	15 mm	110 mm	110 mm		
10-30 Vdc	PNP/NPN	4 wires							
10 30 tuc	NO-NC	4 WIICS	order No.						
10-30 Vdc	PNP NO	3 wires							
			order No.						
10-30 Vdc	PNP NC	3 wires	order No.						
	NPN		order No.						
10-30 Vdc	NO	3 wires	order No.						
	NPN								
10-30 Vdc	NC	3 wires	order No.						
10.2011	PNP	, .		CS08K2	CS08	CS14K2	CS14		
10-30 Vdc	NO-NC	4 wires	order No.	958901040	958901020	958901270	958901120		
10 20 1/4-	NPN	/ dua =		CS07K2	CS07	CS13K2	CS13		
10-30 Vdc	NO-NC	4 wires	order No.	958901000	958901160	958901250	958901100		
10. 20.1/4-	NO NC	2							
10-30 Vdc	NO-NC	2 wires	order No.						
20-250 Vac/Vdc	NO	2 wires							
20-250 vac/ vuc	INO	2 WIIES	order No.						
20-250 Vac/Vdc	NC	2 wires	2 wires	2 wires					
20 230 vac/ vac	vuc inc 2 wire	2 WIICS	order No.						
20-250 Vac	NO	2/3wires							
	2750000		order No.						
10-30 Vdc	Analog								
	0-20 mA		order No.						
NAMUR amplifier	NAMUR	2 wires	audau Na						
			order No.						
Nominal Voltage				12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)		
Residual Ripple				<10%	<10%	<10%	<10%		
Hysteresis				depends on the sensing distance	depends on the sensing distance	depends on the sensing distance	depends on the sensing distar		
Max. Output Currei	nt			200 mA	200 mA	200 mA	200 mA		
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA		
/oltage Drop				< 1,8 V (I=100 m A)					
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimm		
Operation Led				Yellow	Yellow	Yellow	Yellow		
witching Frequer	ncy			10 Hz	10 Hz	10 Hz	10 Hz		
Start Up Delay				< 100 ms	< 100 ms	< 100 ms	< 100 ms		
Repeatability				≤ 5%	≤ 5%	≤ 5%	≤ 5%		
Short Circuit Prote	ection			Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)		
Electric Protection	ıs			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit	s			- 25 +70 C					
Protection Degree				IP67	IP67	IP67	IP67		
Cable Length					2 m		2 m		
Table Section					4x 0,25 mm^2		4x 0,25 mm^2		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	put				160 g		160 g		
Weight - Connecto				120 g		120 g			

CAPACITIVE BASIC M30

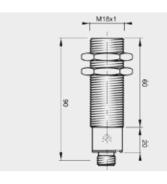


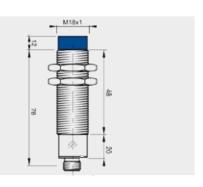


					STANDARD				
				FLU	JSH	NON I	NON FLUSH		
				M8 conn	cable	M8 conn	cable		
NOMINAL SWITCH	IING DISTAN	CE		115 mm	115 mm	125 mm	125 mm		
10-30 Vdc	PNP/NPN	4 wires							
	NO-NC		order No.						
10-30 Vdc	PNP NO	3 wires	order No.						
	PNP		order ivo.						
10-30 Vdc	NC	3 wires	order No.						
40.701/4-	NPN	2							
10-30 Vdc	NO	3 wires	order No.						
10-30 Vdc	NPN	3 wires							
10-30 Vuc	NC	2 Miles	order No.						
10-30 Vdc	PNP	4 wires		CS10K2	CS10	CS16K2	CS16		
10 30 vac	NO-NC	4 WIICS	order No.	958901080	958901060	958901330	958901140		
10-30 Vdc	NPN	4 wires		CS09K2	CS09	CS15K2	CS15		
10 30 vac	NO-NC	4 WIICS	order No.	958901230	958901180	958901300	958901200		
10-30 Vdc	NO-NC	2 wires							
10 30 vac	110 110	2 Wiles	order No.						
20-250 Vac/Vdc	NO	NO	2 wires						
20 250 140, 140			order No.						
20-250 Vac/Vdc	NC	2 wires							
	5 vac, vac		order No.						
20-250 Vac	NO	2/3 wires							
			order No.						
10-30 Vdc	Analog 3	alog 20 mA 3 wires							
	0-20 MA		order No.						
NAMUR amplifier	NAMUR	2 wires	d NI -						
			order No.						
Nominal Voltage				12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)		
Residual Ripple				<10%	<10%	<10%	<10%		
Hysteresis				depends on the sensing distance	depends on the sensing distance	depends on the sensing distance	depends on the sensing distan		
, Max. Output Currei	nt			200 mA	200 mA	200 mA	200 mA		
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA		
Voltage Drop				< 1,8 V (I=100 m A)					
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimme		
Operation Led				Yellow	Yellow	Yellow	Yellow		
Switching Frequer	ncy			10 Hz	10 Hz	10 Hz	10 Hz		
Start Up Delay	,			< 100 ms	< 100 ms	< 100 ms	< 100 ms		
Repeatability				≤ 5%	≤ 5%	≤ 5%	≤ 5%		
Short Circuit Prote	ection			Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)		
Electric Protection	าร			Against polarity reversal inductive loads					
Temperature Limit	S			- 25 +70 C					
Protection Degree				IP67	IP67	IP67	IP67		
Cable Length					2 m		2 m		
Cable Section					4x 0,25 mm^2		4x 0,25 mm^2		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	nut				250 g	ivickei-piateu brass	250 g		
Weight - Connecto	•			210 g	250 g	210 g	250 g 		

CAPACITIVE A.C. M18







80 g

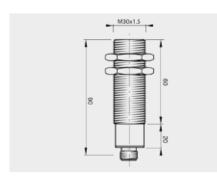
				STAN	IDARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITCH	IING DISTANO	CE		28 mm	215 mm
	PNP/NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
	PNP				
)-30 Vdc	NO	3 wires	order No.		
2014-	PNP	2			
-30 Vdc	NC	3 wires	order No.		
)-30 Vdc	NPN	3 wires			
7-30 Vac	NO	5 WIIES	order No.		
0-30 Vdc	NPN	3 wires			
7-30 Vac	NC	2 MILE2	order No.		
0-30 Vdc	PNP	4 wires			
	NO-NC	сэ	order No.		
0-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
0-30 Vdc	NO-NC	2 wires			
			order No.		
0-250 Vac/Vdc	NO	2 wires		CSP40K4	CSP41K4
			order No.	958901380	958901390
)-250 Vac/Vdc	NC	2 wires	andan Na		
			order No.		
-250 Vac	NO	2/3 wires	order No.	 	
	01	order iv			
)-30 Vdc	Analog 0-20 mA	3 wires	order No.	 	
	0 2011111		order No.		
AMUR amplifier	NAMUR	2 wires	order No.		
minal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
sidual Ripple				<10%	<10%
ysteresis				< 15%	< 15%
ax. Output Curre				300 mA	300 mA
in. Output Curre	nt			2,5 mA	2,5 mA
esidual Current				< 2,5 mA	< 2,5 mA
etting				sensitivity adjustment trimmer	sensitivity adjustment trimmer
eration Led				Yellow	Yellow
vitching Frequer	icy			25 Hz	25 Hz
art Up Delay				 < 5%	 < 5%
peatability ort Circuit Prote	oction			< 5% Present(self-resetting)	Present(self-resetting)
iort Circuit P10te	CUUII				
ectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				- 25 +70 C	- 25 +70 C
rotection Degree				IP67	IP67
able Length					
able Section					
ousing Material				Plastic (PBT)	Plastic (PBT)
eight - Cable Out	put				
	•				

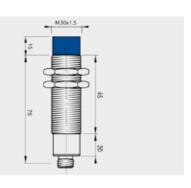
80 g

Weight - Connector Output

CAPACITIVE A.C. M30



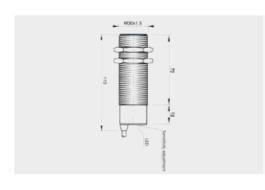


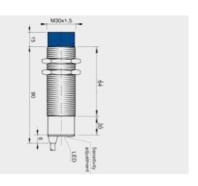


				STANDARD		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IING DISTANC	Έ		220 mm	230 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN	3 wires				
10-30 Vdc	NO NPN	3 wires	order No.			
	NC PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.	СSP50К4 958901400	CSP51K4 958901410	
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires				
10-30 Vdc	Analog	3 wires	order No.			
	0-20 mA		order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current	
Residual Ripple				<10%	<10%	
Hysteresis				< 15%	< 15%	
Max. Output Currer	nt			300 mA	300 mA	
Min. Output Curre	nt			2,5 mA	2,5 mA	
Residual Current				< 2,5 mA	< 2,5 mA	
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	
Operation Led				Yellow	Yellow	
Switching Frequer	ncy			25 Hz	25 Hz	
Start Up Delay						
Repeatability				< 5%	< 5%	
Short Circuit Prote	ection			Present(self-resetting)	Present(self-resetting)	
Electric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				- 25 +70 C	- 25 +70 C	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Plastic (PBT)	Plastic (PBT)	
Weight - Cable Out	put					
Weight - Connector				200 g	200 g	
veignt - connector	output			∠w g	200 g	

CAPACITIVE MULTIVOLTAGE M30

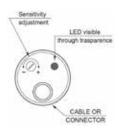






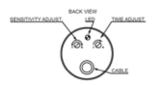
				STANDARD (TIMER TRIMMER)			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	IING DISTANO	CE		20 mm	30 mm		
10-30 Vdc	PNP/NPN	4 wires					
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 vac	NO	2 Miles	order No.				
10-30 Vdc	PNP	3 wires					
	NC	5 Wiles	order No.				
10-30 Vdc	NPN	3 wires					
	NO	3 1123	order No.				
0-30 Vdc	NPN	3 wires					
	NC		order No.				
10-30 Vdc PNP		4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
0-30 Vdc	NO-NC	2 wires					
			order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
8230 VAC/DC	relay SPDT	6 wires		CS31	CS32		
			order No.	958901150 CS32TD5	958901220 CS31TD5		
8230 Vac/dc	relay SPDT (delay ON)		order No.	958901360	958901350		
	1		order No.	958901360 CS32TE5	958901350 CS31TE5		
8230 VAC/DC	relay SPDT (delay OFF) 6 wires	6 wires	order No.	958901370	958901210		
	(uciuy Oi i)		order No.	930911370	930901210		
NAMUR amplifier	NAMUR	2 wires	order No.				
Inminal Valtaga				40 2200/22/42/45/46/00/	10 2201/2-1/4-1 15 (40%)		
Nominal Voltage				18-230Vac/dc (-15/10%) <10%	18-230Vac/dc (-15/10%) <10%		
Residual Ripple				<10%	<10%		
lysteresis	- +			3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)		
Max. Output Curre Obsorption	IL .			2,5 VA	2,5 VA		
Residual Current				2,5 VA 	2,5 VA		
etting				sensitivity and time adj. trimmer	sensitivity and time adj. trimmer		
peration Led				Yellow	Yellow		
witching Frequer	ncv			10 Hz	10 Hz		
tart Up Delay	104			<300 ms	<300 ms		
Repeatability				<5%	<5%		
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)		
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
emperature Limit				- 25 +70 C	- 25 +70 C		
Protection Degree				- 25 +70 C IP65	- 25 +70 C		
able Length				2 m	2 m		
able Section				6x0,30 mm ²	6x0,30 mm ²		
lousing Material				Nickel-plated brass	Nickel-plated brass		
Veight - Cable Out	nut			250 g	250 g		
Weight - Capie Out Weight - Connecto				230 g 	250 g 		

CAPACITIVE SETTINGS & CONNECTIONS



Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.



Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

M8 4-pole NO-NC models

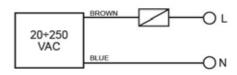


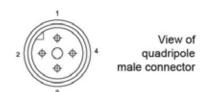
View of quadripole male connector

CONTACTS	CONFIGURATION	ı
	Contacts number	w

Outnut	Contacts numbers			
Output	1	2	3	4
NPN/PNP NO+NC	+	NC	-	NO

2 wires Vac models

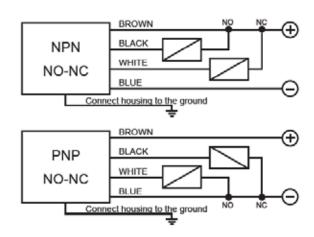




CONTACTS CONFIGURATION

Available	Contacts numbers			
Available	1	2	3	4
NO	L		N	

4 wires NO-NC Vdc model



6 wires Mulivoltage models



CABLES, CONNECTORS & ACCESSORIES

2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable

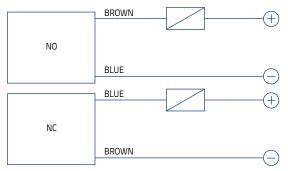


CABLES, CONNECTORS & ACCESSORIES

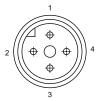
CABLES. CONNECTORS & ACCESSORIES

2 WIRES SENSORS

2 WIRES NO-NC



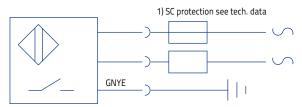
WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.



M12 connector

	CONTACT	rs configura	TION	
Available	Contacts num	bers		
Available	1	2	3	4
NO	+		-	
NC	_		+	

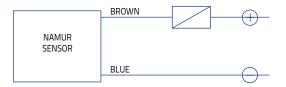
INDUCTIVE AC

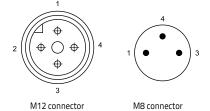


Double key connector for inductive AC sensors



NAMUR

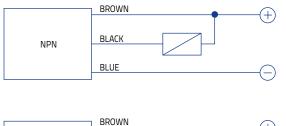


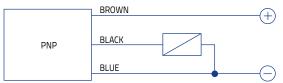


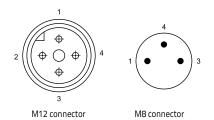
	COI	NTACTS CONFI	GURATION		
Available	Contacts	numbers			
Avallable	1	2	3	4	
NAMUR	+		-		

3 WIRES SENSORS

3 WIRES PNP or NPN, NO or NC





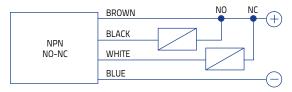


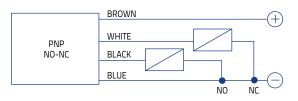
	CON	TACTS CONFI	GURATION		
vailable	Contacts	numbers			
Ivaliable	1	2	3	4	

NO/NC

4 WIRES SENSORS

4 wires (NO+NC)

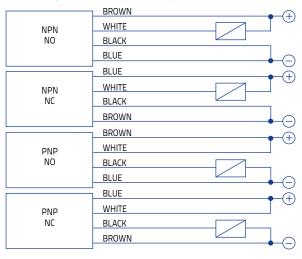




(NO or NC) +

	CONTACT	S CONFIGURAT	ΓΙΟΝ	
Output	Contacts numb	oers		
Output	1	2	3	4
NO + NC	+	NC	-	NO

4 wires (PNP/NPN, NO/NC)



	CONTACT	'S CONFIGURA	TION	
Output	Contacts num	bers		
Output	1	2	3	4
NPN NO	+	NO	-	-
NPN NC	_	NC	+	-
PNP NO	+	+	-	NO
PNP NC	_	+	+	NC

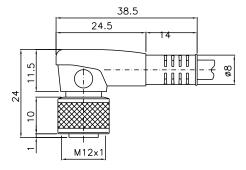
CABLES. CONNECTORS & ACCESSORIES

CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.
			M8	CC P1 01 C 02	054351/00
		Grey, P.V.C.	3 m	CS-B1-01-G-03	95A251490
M8 Connector (Axial)	3		5 m	CS-B1-01-G-05	95A251510
(Axiai)		P.U.R.	2 m	CS-B1-01-R-02	95A251580
			5 m	CS-B1-01-R-05	95A251600
		Grey, P.V.C.	3 m	CS-B2-01-G-03	95A251500
M8 Connector (Radial 90°)	3		5 m	CS-B2-01-G-05	95A251520
(Raulal 90)		P.U.R.	2 m	CS-B2-01-R-02	95A251590
			5 m	CS-B2-01-R-05	95A251610
			3 m	CS-B1-02-G-03	95A251420
		Grey, P.V.C.	5 m	CS-B1-02-G-05	95A251430
		,,	7 m	CS-B1-02-G-07	95A251440
M8 Connector	4		10 m	CS-B1-02-G-10	95A251480
(Axial)		P.U.R.	2 m	CS-B1-02-R-02	95A251620
		1.0	5 m	CS-B1-02-R-05	95A251640
		OIL resistant	5 m	CS-B1-02-0-05	95A251730
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100
			3 m	CS-B2-02-G-03	95A251450
		Grey, PVC	5 m	CS-B2-02-G-05	95A251460
		GIEY, PVC	7 m	CS-B2-02-G-07	95A251470
M8 Connector	L		10 m	CS-B2-02-G-10	95A251530
(Radial 90°)	4	DIID	2 m	CS-B2-02-R-02	95A251630
		P.U.R.	5 m	CS-B2-02-R-05	95A251650
		OIL resistant	5 m	CS-B2-02-0-05	95A251720
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110
		M	112		
			3 m	CS-A1-01-G-03	95A251290
M12 Connector			5 m	CS-A1-01-G-05	95A251300
(Axial)	3	Grey, P.V.C.	7 m	CS-A1-01-G-07	95A251320
			10 m	CS-A1-01-G-10	95A251340
			3 m	CS-A2-01-G-03	95A251200
			5 m	CS-A2-01-G-05	95A251210
		Grey, P.V.C.	7 m	CS-A2-01-G-07	95A251220
M12 Connector	3		10 m	CS-A2-01-G-10	95A251230
(Radial 90°)	-		3 m	CS-A2-01-0-03	95A251660
		OIL resistant	5 m	CS-A2-01-0-05	95A251670
		(CEI 2034-01)	10 m	CS-A2-01-0-10	95A251680
M13 Connector with LED					
M12 Connector with LED (for PNP N.O. sensors)	3	Grey, P.V.C.	5 m	CS-A2-11-G-05	95A251310
(Radial 90°)			10 m	CS-A2-11-G-10	95A251330
elded M12 Connector (Axial)	3	Grey, P.V.C.	10 m	CV-A1-21-G-10	95ACC2060
			2 m	CS-A1-21-R-02	95ACC8000
12 Connector Axial Double eyd + PE for AC inductive	3	Orange, P.V.C.	3 m	CS-A1-21-R-03	95ACC8010
cya + r L Tot AC Illudetive			5 m	CS-A1-21-R-05	95ACC8020
			3 m	CS-A1-02-G-03	95A251380
			5 m	CS-A1-02-G-05	95A251270
M12 Connector		Grey, P.V.C.	7 m	CS-A1-02-G-07	95A251280
(Axial)	4		10 m	CS-A1-02-G-10	95A251390
			2 m	CS-A1-02-R-02	95A251540
		P.U.R.	5 m	CS-A1-02-R-05	95A251560
			3 m	CS-A2-02-G-03	95A251360
			5 m	CS-A2-02-G-05	95A251240
		Grey, P.V.C.	7 m	CS-A2-02-G-07	95A251245
			10 m	CS-A2-02-G-10	95A251243
M12 Connector			10111		
M12 Connector (Radial 90°)	4		2 m	CS_A2_D2_D2	
M12 Connector (Radial 90°)	4	P.U.R.	2 m	CS-A2-02-R-02	95A251550
	4		5 m	CS-A2-02-R-05	95A251570
	4	OIL resistant	5 m	CS-A2-02-R-05 CS-A2-02-0-05	95A251570 95A251690
(Radial 90°)	4		5 m 5 m 10 m	CS-A2-02-R-05 CS-A2-02-0-05 CS-A2-02-0-10	95A251570 95A251690 95A251700
	4	OIL resistant	5 m	CS-A2-02-R-05 CS-A2-02-0-05	95A251570 95A251690

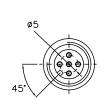
			3 m	CV-A1-22-B-03	95ACC1480
			5 m	CV-A1-22-B-05	95ACC1490
Shielded M12 Connector (Axial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
(1.041021)			15 m	CV-A1-22-B-15	95ACC2070
			25 m	CV-A1-22-B-25	95ACC2090
Cli II III C			3 m	CV-A2-22-B-03	95ACC1540
Shielded M12 Connector (Radial 90°)	4	Black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
(1.143.41.30)			10 m	CV-A2-22-B-10	95ACC1560
			3 m	CS-A1-02-U-03	95ASE1120
			5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)	4	U.L., Black, P.V.C.	10 m	CS-A1-02-U-10	95ASE1140
(1.0000)			15 m	CS-A1-02-U-15	95ASE1150
			25 m	CS-A1-02-U-25	95ASE1160
		CONNECTOR	(not cabled)		
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003

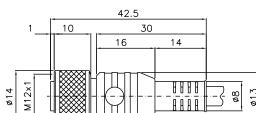
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RADIAL M12





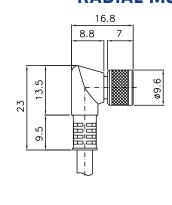


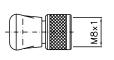


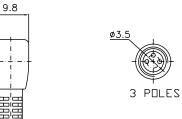
AXIAL M12

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RADIAL M8



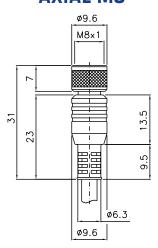




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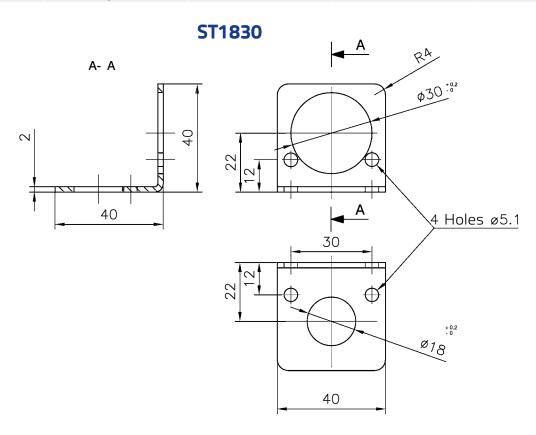
AXIAL M8



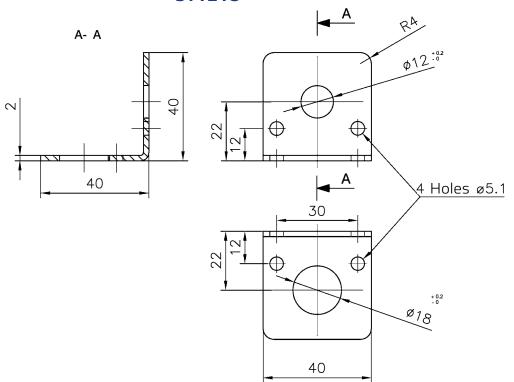
CABLES. CONNECTORS & ACCESSORIES

ACCESSORIES SELECTION AND ORDER INFORMATION

CONNECTOR	TYPE	MATERIAL	CODING	ORDER No.
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IS-12-A1-S2	95B061251	BASIC	20
IS-12-A15-03	95B060680	INDUCTIVE AC	56
IS-12-A15-S2	95B060690	INDUCTIVE AC	56
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IS-12-A2-03	95B061271	BASIC	20
IS-12-A2-S2	95B061281	BASIC	20
IS-12-A3-03	95B061181	BASIC	20
IS-12-A3-S2	95B061191	BASIC	20
IS-12-A4-03	95B061211	BASIC	20
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IS-12-A9-03	95B064100	BASIC	20
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IS-12-B3-03	95B061981	BASIC	21
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IS-12-C1-03	95B061641	BASIC	20
IS-12-C1-S2	95B061651	BASIC	20

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IS-12-C20-S2	95B064190	NAMUR	66
IS-12-C2-03	95B061671	BASIC	20
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IS-12-C3-03	95B061581	BASIC	20
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IS-30-A1-03	95B061421	BASIC	28
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IS-30-A3-03	95B061381	BASIC	28
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IS-30-A4-S2	95B061411	BASIC	28
IS-30-A9-03	95B064530	BASIC	28

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IS-30-B3-03	95B062181	BASIC	29
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IS-30-D3-03	95B062581	BASIC	29
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IS-30-E1-03	95B067950	BASIC	30
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IS-30-H2-03	95B063781	BASIC	31
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IS-30-H3-03	95B063721	BASIC	31
IS-30-H3-S2	95B063731	BASIC	31
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IS-30-P1-S2	95B060200	STAINLESS STEEL	45
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IS-40-W6-S3	95B065230	SQUARE	72
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IS-40-W8-S3	95B065260	SQUARE	73
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IS-40-X6-S2	95B065310	SQUARE	74
IS-40-Y5-S3	95B065280	SQUARE	72
IS-40-Y6-S3	95B065270	SQUARE	72
IS-40-Y7-S3	95B065290	SQUARE	73
IS-40-Y8-S3	95B065300	SQUARE	73
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CS07K2	958901000	basic	78
CS08	958901020	basic	78
CS07	958901160	basic	78
CS14K2	958901270	basic	78
CS13K2	958901250	basic	78
CS14	958901120	basic	78
CS13	958901100	basic	78
CSP40K4	958901380	Capacitve A.C.	80
CSP41K4	958901390	Capacitve A.C.	80

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CS10K2	958901080	basic	79
CS10	958901060	basic	79
CS16K2	958901330	basic	79
CS16	958901140	basic	79
CS09K2	958901230	basic	79
CS09	958901180	basic	79
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CS32TD5	958901360	Multi-voltage (timer)	82
CS31TE5	958901210	Multi-voltage (timer)	82
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HEADQUARTERS

Datalogic Automation Srl

Via Lavino, 265 40050 Monte San Pietro - Bologna - Italy Tel: +39 051/6765611 info.automation.it@datalogic.com

BRANCHES AND SALES OFFICES

EUROPE BENELUX

Datalogic Automation Benelux

Newtonweg 3 4104 BK Culemborg - The Netherlands Tel. +31 345/589489 info.automation.nl@datalogic.com

FRANCE

Datalogic Automation Srl

Succursale en France Le Parc Technologique de Lyon 333 cours du 3ème Millénaire - Le Pôle 69800 Saint Priest Tél. +33 (0)4/72476180 info.automation.fr@datalogic.com

GERMANY

Datalogic Automation Srl

Niederlassung Central Europe Gottlieb-Stoll-Straße 1, 73271 Holzmaden Tel. +49 7023 7453-100 info.automation.de@datalogic.com

ITALY

Datalogic Automation Italy

Via Lavino, 265 40050 Monte San Pietro - Bologna Tel. +39 051/6765617 info.automation.it@datalogic.com

Via Taormina 1 20093 – Cologno Monzese (MI) Italy Tel. +39 02 25151211 info.automation.it@datalogic.com

Via Le Gorrey, 10 11020, Donnas - Aosta Tel. +39-0125-8128201 info.automation.it@datalogic.com

SPAIN

Datalogic Automation Iberia

Sucursal en España C/ Frederic Mompou 4 esc A, 4° puerta 3ª 08960 Sant Just Desvern - Barcelona Tel. +34 (0)93/4772059

NORDIC

Datalogic Automation AB

Höjdrodergatan 21 21239 Malmö - Sweden Tel. +46 (0)40/385000 info.automation.se@datalogic.com

UNITED KINGDOM

Datalogic Automation UK

Datalogic House Dunstable Road, Redbourn - Herfordshire AL3 7PR Tel. +44 (0) 1582 791750 info.automation.uk@datalogic.com

TURKEY

Datalogic ADC Turkey Merkezi Italya Istanbul Merkez Şubesi Süleyman Seba Cad. No:48 BJK Plaza A. Blok Kat:4 D.44 34357 - Istanbul - Turkey Tel. +90 212 396 1550 info.adc.tr@datalogic.com

NORTH AMERICA

Datalogic Automation Inc

511 School House Road Telford, PA 18969-1196 - United States Tel. +1-800-BAR-CODE or +1-215-723-0981 info.automation.us@datalogic.com

Datalogic Automation Inc

MACHINE VISION

5775 W Old Shakopee Rd STE 160, Bloomington, MN 55437 **United States** Tel. +1-952-996-9500 info.automation.us@datalogic.com

SOUTH AMERICA

Datalogic Brazil

Avenida Olivio Roncoletta, 465 Bairro Vila Hortolandia Jundiaì (SP), Brazil Tel. +55 11 29232600 info.automation.br@datalogic.com

APAC

Australia-New Zealand

Datalogic Automation Pty Ltd

Unit 130, 45 Gilby Road Mt Waverley - Victoria, 3149 - Australia Tel. +61 (0)3/95589299 info.automation.au@datalogic.com

CHINA

Datalogic Automation Asia

2nd Floor,10 Building, Dayuan Industrial Zone, No.1,Pingshan 1st Road, Liuxuan Blvd.Xili, Nanshan District, 518054,Shenzhen,China Tel: +86 (0)755-8629 6779 info.automation.cn@datalogic.com

R206, 2F, No. 1288 Longdong Avenue, Pudong New Area, Shanghai,201203 Tel: +86 (0)21-5836 6692 info.automation.cn@datalogic.com

Floor 20, Room 2019, Building 2, 16 West Nan San Huan Road Fengtai District, Beijing Tel: +86 (0)10-8757 6375 info.automation.cn@datalogic.com

1202, Excellence Build, 128 Yanji Road, Shibei District, Qingdao, China Tel: +86 (0)532 55787889

JAPAN

Idec Auto-Id Solutions Corporation

8-10, Shioe 5-chome, Amagasaki Hyogo, Japan 661-0976 Tel. +81-6-7711-8880

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