Datalogic announces the availability of the DS5100, the new flexible, powerful and compact laser scanner. The DS5100 is a cost effective solution satisfying the main identification needs of Automotive, Food & Beverage, Pharmaceutical and other manufacturing plants.

The DS5100 offers a complete and flexible portfolio including Medium and Long Range models, Linear and Oscillating Mirror models. The unit boasts the DST™ (Digital Signal Technology) for stable and constant performance at any operative condition, a best in class ACR™ 4 reconstruction algorithm, and optimized reading recipes for flexible and outstanding reading performance on low quality and low contrast bar codes, damaged labels as well as at high skew angles. Superior reading performance together with a user selectable focus make the DS5100 the ideal solution to cover different applications along the manufacturing chain: Shop Floor, End of Line, Automated Warehouse, Intralogistics, Pallet Reading and more.

Top Industrial grade IP65 protection class, subzero™ models down to -35°C and total ambient light immunity make the DS5100 ideal for harsh industrial environments, outdoor and frozen production facilities. For easy installation and flexible form factor the DS5100 is equipped with rotating connector block. For easy setup and maintenance the DS5100 has the intuitive X-PRESS™ interface and the Multilanguage Genius™ software tool. The embedded Multilanguage display improves scanner monitoring and diagnostics.

The DS5100 offers complete connectivity and networking capabilities. On-board Ethernet ports (one and two ports models) and switch provide embedded interface to main Fieldbus EtherNet/IP and PROFINET-IO without the need of external devices for a cost effective solution and short installation time. The ID-NET™ interface is ideal for high speed networks and multi side reading. Ethernet Bus Connection EBC™ interface delivers real time multi-head synchronization and events via bus for short and easy installation (no signal cables), PACKTRACK™ tracking technology mode for increased reading throughput and accuracy.

Extended interoperability with Datalogic mid-range (DS2100N/DS2400N through ID-NET interface) and long range (DS8110/DX8210 through EBC) laser scanner families allows the DS5100 to be the perfect solution for integrated systems.

With its outstanding performances, the DS5100 delivers a smart, flexible and high performance/price ratio offer in the Datalogic scanner portfolio.

# CONTALOCIC

# DENTIFICATION

# HIGHLIGHTS

- Medium, Long Range, Linear and Oscillating Mirror models, user selectable focus for high application flexibility
- ID-NET interface and Ethernet Bus Connections (EBC)
- Embedded PROFINET-IO and EtherNet/IP for connectivity to main industrial Fieldbus
- X-PRESS interface, Genius software tool, embedded multilanguage display for easy scanner setup and maintenance
- Rotating connector block for flexible form factor and easy installation
- DST (Digital Signal Technology), ACR4 reconstruction technology and PACKTRACK tracking technology on Long Range
- Superior ambient light immunity from high frequency laser modulation
- Top industrial grade, IP65 and subzero version for low temperature environments

# **APPLICATIONS**

## MANUFACTURING APPLICATIONS

- Automotive: Shop Floor, Work In Progress Control, Parts Traceability
- Food & Beverage, Pharmaceutical: Secondary
   Package Control, End of Line, Palletizing, Automated
   Warehouse, Tote Tray Identification, Automatic
   Picking Process Control, Intralogistics, Entry level
   Sorting and Shipping Process, Pallet Reading, Cold
   Storage and Outdoor applications (subzero models)
- General Manufacturing: Shop Floor, Work In Progress Control, Parts Traceability, Secondary Package Control, End of Line, Palletizing, Shipping process, Automated Warehouse, Intralogistics

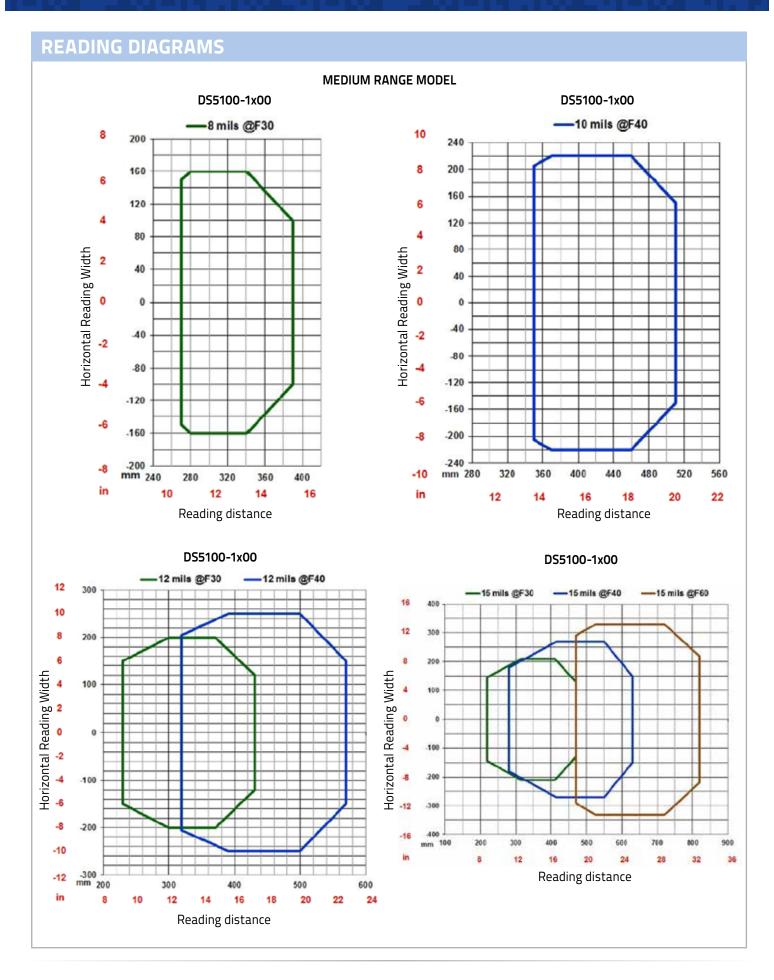


TECHNICAL DATA					
INDUSTRIAL LASER BAR CODE SCANNERS	DS5100-X2XX	DS510	0-X3XX	DS5100-X4XX	
Reading distance (min/max)	Medium range: 200 - 1000 mm Long Range: 300 - 1400 mm				
Max resolution		up to 0.2	mm (8mils)		
Scan rate		800	scan/s		
Focus adjustment	Mechanically adjustable focus with locking				
Scan pattern type		Linear / Oscillating M	1irror / Deflection Mirror		
Aperture angle		65 d	legrees		
Multilabel reading	Up to 10 Codes in the same reading phase				
Bar code assignment technology	Packtrack tracking technology on Long Range models DS5100-24xx only when configured in an EBC network (not available on Medium Range models)				
Reconstruction code technology	ACR4				
Readable codes	Code 2/5, Code39, Code93, Code128, EAN/UPC, EAN128, Codabar, Pharmacode, Plessey, ISBT128				
Case material	Aluminum				
Dimensions (typical value)	LIN: 101 x 85 x 42 mm (3.98 x 3.35 x 1.65 in) OM: 116.7 x 123.6 x 48.4 mm (4.60 x 4.86 x 1.90 in)	LIN: 101 x 104.2 x 42 mr OM: 116.7 x 142.9 x 48.4 r	m (3.98 x 4.1 x 1.65 in) mm (4.60 x 56.26 x 1.90 in)	LIN: 117.75 x 104.6 x 42 mm (3.98 x 4.12 x 1.65 in) OM: 125.8 x 143.3 x 48.4 mm (4.95 x 5,64 x 1.90 in)	
Weight	LIN: 580 g OM: 775 g		520 g 715 g	LIN: 550 g OM: 745 g	
Operating temperature	0° to +50 °C (+32° F to +122 °F) Subzero version -35°C to +50°C (-31° F to +122 °F)				
Storage temperature	-20° to +70° C (-4°F to +158 °F) Subzero version -35° to +70° C (-31°F to +158 °F)				
lp rating		II	P65		
Embedded communication interfaces	Main port RS232/RS485-FD up to 115.2 Kbit/s Auxiliary port RS232 up to 115.2 kbps ID-NET™ RS485 multidrop port up to 1 Mbps	Auxiliary port RS2: ID-NET RS485 mul EtherNet/IP, Modbus	35-FD up to 115.2 Kbit/s 32 up to 115.2 kbps Itidrop up to 1 Mbps 5 TCP, Ethernet TCP/IP, I-IO Class A	PROFINET-IO Class B EBC Technology (only as slave of SC5000)	
Fieldbus/ethernet	Fieldbus supported through CBX or QLM external device	T Other fieldbus support	P, PROFINET-IO, Modbus CP ced through CBX or QLM al device	Embedded PROFINET-IO	
Digital inputs	2 Input (optocoupled, NPN/PNP)	2 Input (optocou	upled, NPN/PNP)	1 Input (optocoupled, NPN/PNP)	
Digital outputs	2 Outputs (optocoupled)	2 Outputs (no	n-optocoupled)	/	
Operating modes	On-line, Serial On-line, Automatic, Continuous, Test, Verifier, Packtrack tracking technology on Long Range when configured in an EBC network				
Display	16 x 2 characters				
Device programming	Genius (Windows™ based) software tool Serial Host Mode Programming sequences XPRESS interface				
Voltage supply/power consumption	DS5100 XX00		DS5100 XX20		
	10-30V; 6W		10-30V; 7,5W		
	DS5100 XX05		DS5100 XX25		
	24V; 28,8W			24V; 31,2W	

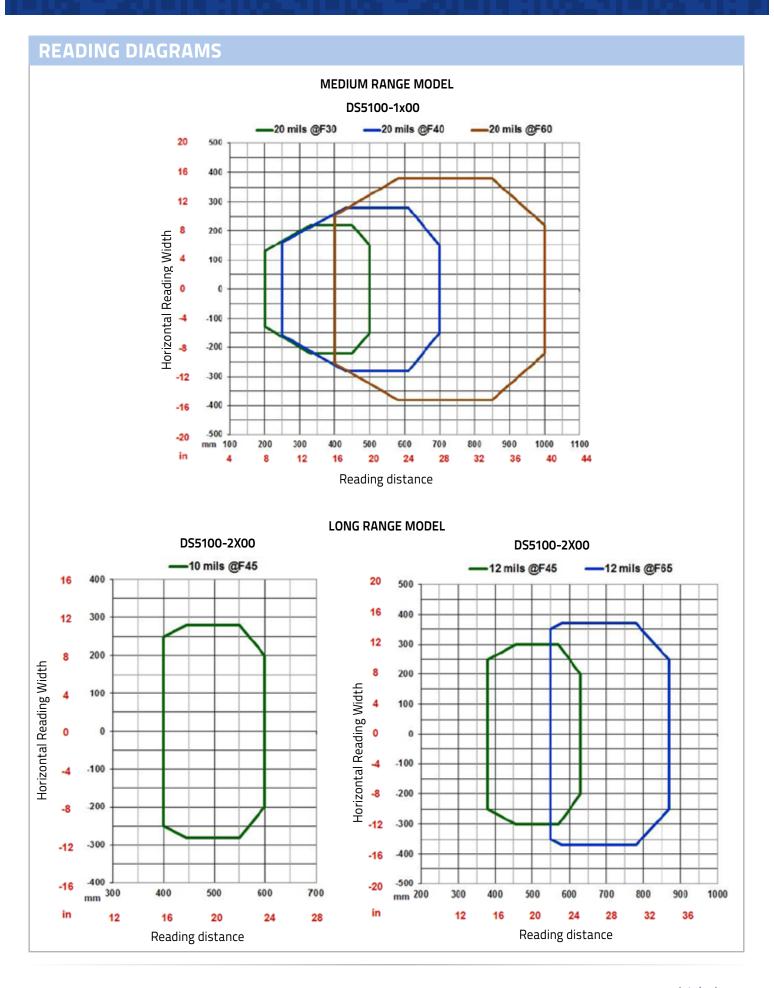




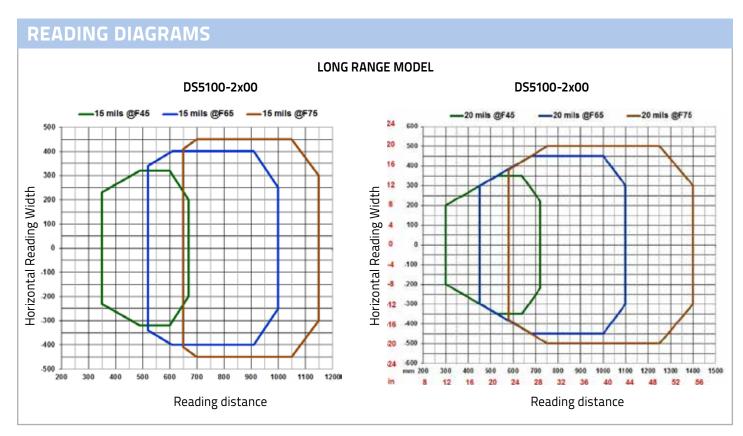


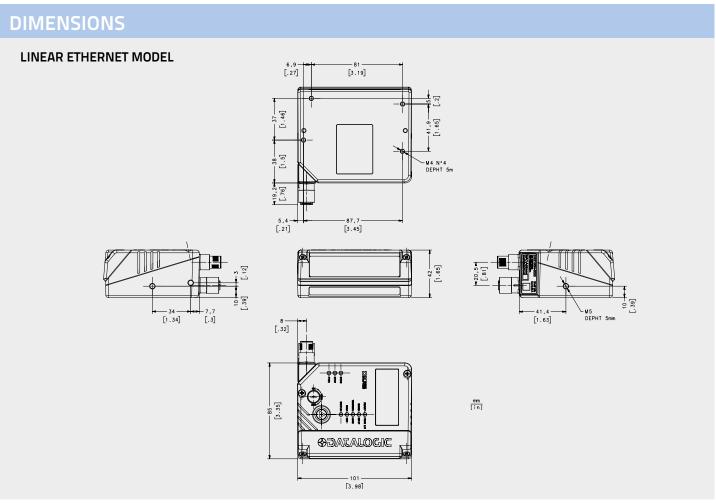








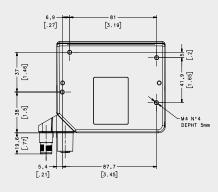


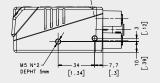




# **DIMENSIONS**

# **LINEAR PROFINET MODEL**

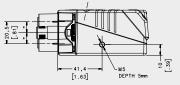






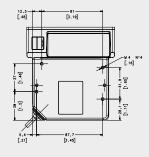


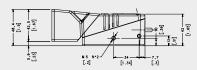
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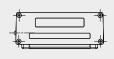


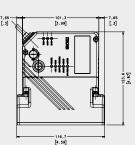


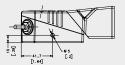
# **OSCILLATING MIRROR SERIAL MODEL**









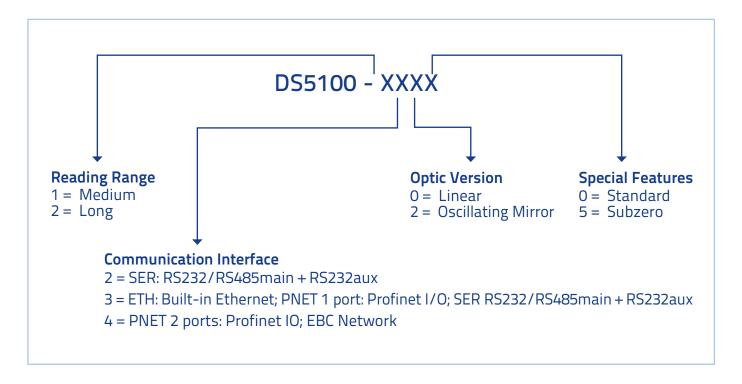


931061347



MODELS					
ORDER NO.	DESCRIPTION				
931061334	DS5100-1300 MEDIUM RANGE, ETH				
931061335	DS5100-1320 MEDIUM RANGE, ETH, OM				
931061336	DS5100-2300 LONG RANGE, ETH				
931061337	DS5100-2320 LONG RANGE, ETH, OM				
931061338	DS5100-1400 MEDIUM RANGE, PNET				
931061339	DS5100-1420 MEDIUM RANGE, PNET, OM				
931061340	DS5100-2400 LONG RANGE, PNET				
931061341	DS5100-2420 LONG RANGE, PNET, OM				
931061342	DS5100-1305 MEDIUM RANGE, ETH, SUBZERO				
931061343	DS5100-1325 MEDIUM RANGE, ETH, OM, SUBZERO				
931061344	DS5100-1200 MEDIUM RANGE, SER				
931061345	DS5100-1220 MEDIUM RANGE, SER, OM				
931061346	DS5100-2200 LONG RANGE, SER				

DS5100-2220 LONG RANGE, SER, OM





DS5100™

BK-4000

BK-4001



93ACC1837

93ACC1838

ACCESSORIES						
ORDER NO.	DESCRIPTION	PART NUMBER				
Mirrors						
GFC-40	105° Deflection Mirror (only for DS5100-XX00 Linear readers)	93ACC1785				
GFC-400	ADJ MIRROR CONTACT READING (only for DS5100-XX00 Linear readers)	93ACC1867				
Brackets						

# L-Shape Bracket U-Shape Bracket

Controllers					
	SC4000-1000	ID-NET CONTROLLER STD	935201000		
	SC5000-1000	Standard System Controller	935750001		
	SC5000-1100	Profibus System Controller	935750002		
	SC5000-1200	Profinet System Controller	935750003		

### **Connection Boxes**

Connection Box CBX100 with backup module BM100, Modular Connection Box CBX500 with display module BM150 and connectivity modules (DeviceNet, CANOpen, PROFI-BUS, Modbus, Ethercat, CC-Link) Quick Link QL and QLM slave and Master

The DS5100 uses the same accessories of DS4800 for complete backwards compatibility. For more details on the accessories please see the DS5100 Reference Manual.

Rev. 00, 10/2017