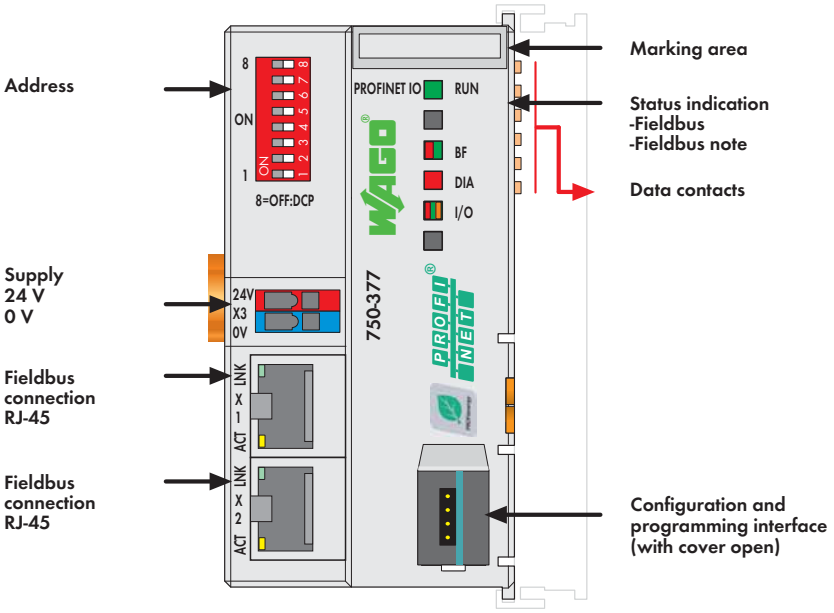
PROFINET IO advanced ECO Fieldbus Coupler

2-port switch; 100 Mbit/s; digital, analog and complex signals



The 750-377 Fieldbus Coupler connects the WAGO-I/O-SYSTEM 750 to PROFINET IO (open, real-time industrial ETHERNET automation standard). The coupler identifies the connected I/O modules and creates local process images for one IO controller and one IO supervisor according to preset configurations. The process images may include a mixed arrangement of analog, digital or specialty modules. Analog and specialty module data is sent via words and/or bytes; digital data is sent bit by bit.
The fieldbus coupler operates as an IO device in the network. It features an integrated 2-port switch, simplifying the creation of a line structure without additional network components.
The device name can be assigned via DCP protocol or set via DIP switch.

Description	Item No.	Pack. Unit
PROFINET IO adv. ECO 2-Port	**750-377**	1
PROFINET IO adv. ECO 2-Port/T	**750-377/025-000**	1
Extended temperature range: -20 °C ... +60 °C		

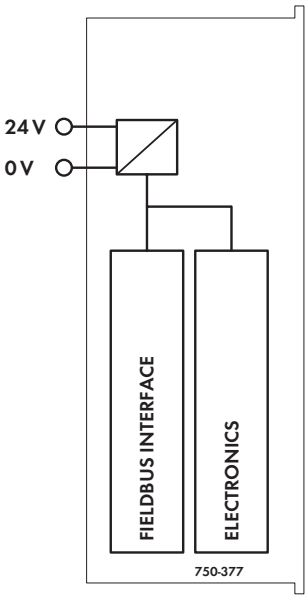
Accessories		Item No.	Pack. Unit
Miniature WSB Quick marking system			
	plain	**248-501**	5
	with marking	see Section 11	

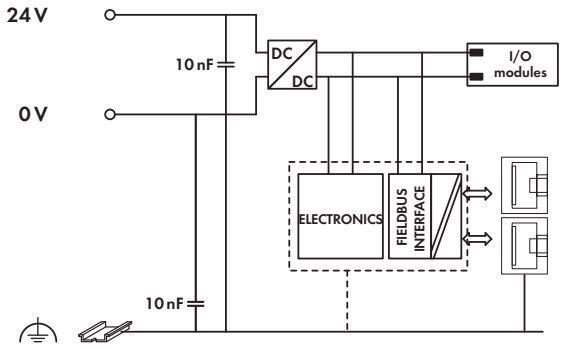
Approvals

Conformity marking	CE
Marine applications (versions upon request)	GL
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4

System Data

No. of couplers connected to Master	limited by PROFINET specification
Transmission medium	Twisted Pair S-UTP 100 Ω cat. 5
Max. length of fieldbus segment	100 m between hub station and 750-377; max. length of network limited by PROFINET specification
Baud rate	10 Mbit/s (ETHERNET protocols), 100 Mbit/s full duplex (PROFINET IO)
Transmission method	100Base-TX
Buscoupler connection	2 x RJ-45
PROFINET IO standard	V2.2 (conformance class C, pending)





Technical Data

Number of I/O modules	64
Max. input process image	256 bytes
Max. output process image	256 bytes
Configuration	via PC
PROFINET IO features	Integrated 2-port switch;
	Auto-negotiation, Auto-MDIX;
	Isochronous real-time communication
	(pending);
	Transmission clock: 1 ms (RT),
	1, 2, 4 ms (IRT);
	Device replacement without programming
	tool
Protocols	Topology detection / LLDP,
	Network diagnostics / SNMP / MIB-2,
	media redundancy / MRP (pending),
	Web server / HTTP
Profiles supported	PROFIsafe V2, PROFIenergy V1.0
ID code	Vendor ID: 0x011D;
	Device ID: 0x02EE;
	Coupler ID:
	0x01000179 (firmware 01, 02),
	0x02000179 (firmware 03)
Power supply	24 V DC (-25 % ... +30 %)
Input current typ. at rated load (24 V)	280 mA
Efficiency of the power supply (typ.) at	
nominal load (24 V)	90 %
Internal current consumption (5 V)	450 mA
Total current for I/O modules (5 V)	700 mA
Isolation	500 V system/supply

General Specifications

Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 1.5 mm² / AWG 28 ... 14
Strip lengths	5 ... 6 mm / 0.22 in
Dimensions (mm) W x H x L	50 x 65 x 97
	Height from upper-edge of DIN 35 rail
Weight	107.1 g
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27
Degree of protection	IP20
EMC immunity of interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-3, marine applications