Westermo®

Point-to-Point Fibre Converter PROFIBUS

ODW-710-F1 EX

⁙ Numerous fibre configuration options
- Up to 120 km distance
- BiDi support (single fibre)
- Multimode and singlemode SFPs in single ring

⁙ Designed for use in Industrial applications
- Dual 10 V to 60V DC power input
- 500,000h MTBF according to MIL HDBK-217K
- ATEX Zone 2 – Ex II 3 G Ex nA II C T4 Gc

⁙ Compliant to EN 50170 PROFIBUS DP standard
- Supports all standard data rates to 12 Mbit/s Standard 9 pin
- PROFIBUS D-sub connection
- Auto negotiation of data rate

⁙ Extensive resilient fibre optic network solutions
- Ring Recovery < 1 m
- Latency < 0.5 ms allowing 250 units
- Galvanically isolated fault status output

CE FC Part 15 Industrial IT enabled Ex

EN 61000-6-2 Industrial Immunity **EN 61000-6-3** Residential Emission **EN 61000-6-4** Industrial Emission **EN 50121-4** Railway Trackside

The ODW-710-F1 EX is an ATEX certified PROFIBUS modem that has been designed to allow the use of fibre optic cables on PROFIBUS DP networks. The design allows the use of a range of Westermo verified SFP (Small Form Pluggable) transceivers which can provide solutions with, for example, only a single fibre or distances up to 120 km. Both multidrop networks and redundant rings can be formed using a mixture of transceiver types.

This unit has been designed for industrial use where the requirement is for a long and reliable service life in a harsh environment. To ensure this reliable operation we manufacture using the highest quality components.

The ODW-710 EX can be used on all PROFIBUS DP networks to extend the operational network size beyond the normal constraints of the copper cable. All the data rates defined in EN50170 are supported.
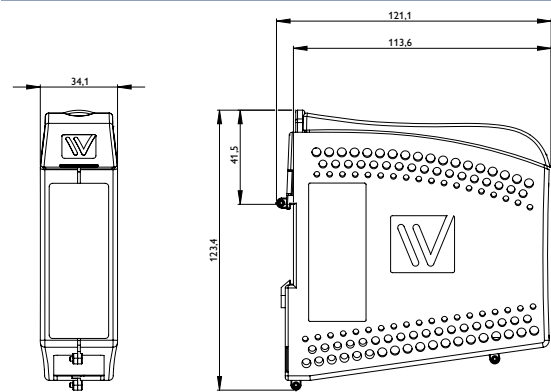
Large ring networks can be created to provide network resilience to guarantee system functionality even if a cable is damaged. The ring recovery time ensures that the network devices are not aware of the failure. The fault contact provides a method to communicate network failures

Ordering Information

Art.no	Description
3651-3711	ODW-710-F1 EX
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications ODW-710-F1 EX

Dimensional drawing

Dimension W x H x D   35 x 121 x 119 mm (1.37 x 4.76 x 4.68 in)
Weight   0.26 kg
Degree of protection   IP 21

Power	
Operating voltage	10 to 60 VDC and 20 to 30 VAC
Rated current	300 mA @ 12 V 150 mA @ 24 V 75 mA @ 48 V

Interfaces	
Status	1 x Detachable screw terminal
PROFIBUS DP (RS-485)	1 x 9 600 bit/s – 12 Mbit/s
FX (Fibre)	1 x LC Duplex or LC Simplex

Temperature	
Operating	–40 to +70°C (–40 to +158°F)
Storage & Transport	–40 to +70°C (–40 to +158°F)

Agency approvals and standards compliance	
EMC	EN 61000-6-1, Immunity residential environments
	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-3, Emission residential environments
	EN 61000-6-4, Emission industrial environments
	EN 55022, Emission IT equipment, class A
	EN 55024, Immunity IT equipment
	FCC part 15 Class A
	EN 50121-4, Railway signalling and telecommunications apparatus
	IEC 62236-4, Railway signalling and telecommunications apparatus
ATEX	EN 60079-0 and EN 60079-15