Point-to-Point Fibre Converter PROFIBUS

ODW-710-F1

- Numerous fibre configuration options
  - Up to 120 km distance
  - BiDi support (single fibre)
  - Multimode and singlemode SFPs
- Designed for use in Industrial applications
  - Dual 10 V to 60V DC power input
  - 500,000h MTBF according to MIL HDBK-217K
  - Galvanically isolated status output
- Compliant to PROFIBUS DP standard
  - Supports all standard data rates to 12 Mbit/s
  - EN 50170 compliant
  - Standard 9 pin PROFIBUS D-sub connection
- Simple to use and install
  - Auto negotiation of data rate
  - Comprehensive diagnostic LEDs
  - Compact housing with integral DIN rail clip

Part 15

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 has been designed to allow the PROFIBUS DP protocol to be transmitted point to point over a fibre optic link. 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.

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.

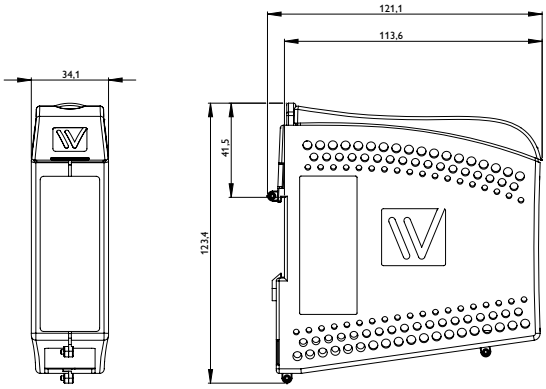
The ODW-710 can be used on all PROFIBUS DP networks to extend the operational network size beyond the normal constraints of the copper cable. All the data rates defined in EN50170 are supported.

The ODW is simple to install being small and with a simple integral DIN rail clip. The standard PROFIBUS DP connector plugs straight onto the 9 pin D-sub and the unit automatically detects the data rate so no configuration is needed.
The comprehensive LEDs provide a quick and easy way of detecting any network problems that may be encountered.

Ordering Information	
Art.no	**Description**
3651-0711	ODW-710-F1
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications ODW-710-F1

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
Safety	EN 60950-1, IT equipment