

Ring / Multidrop Fibre Converter PROFIBUS

ODW-610-F2

- ⌘ 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 60 VDC power input
 - 500,000h MTBF according to MIL HDBK-217K
 - Compact housing with integral DIN rail clip
- ⌘ 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 ms
 - Latency < 0.5 ms allowing 250 units per ring
 - Galvanically isolated fault status output



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-610-F2 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-610 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.

The ODW-610 is a base units used together with Westermo SFP transceivers. With this opportunity it is possible to configure all of the previous variants that had mounted transceivers as well as many new combinations. Different transceiver options are described in the SFP transceiver data sheet.

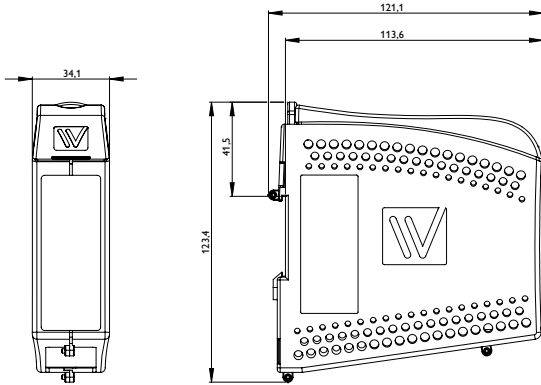
Our new concept with base unit and transceivers is 100% compatible with all previous variants.

Ordering Information

| Art.no | Description |
|-----------|---|
| 3651-0612 | ODW-610-F2, Ring / Multidrop Fibre Converter PROFIBUS |
| 3125-0001 | PS-30, Power supply, DIN mounted (Accessories) |

Specifications ODW-610-F2

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 | 400 mA @ 12 V 200 mA @ 24 V 100 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) | 2 x LC Duplex or LC Simplex |

Temperature

| | |
|---------------------|------------------------------|
| Operating | -40 to +60°C (-40 to +140°F) |
| Storage & Transport | -40 to +60°C (-40 to +140°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 | UL/CSA/IEC/EN 60950-1, IT equipment |