Westermo®

Ring / Multidrop Fibre Converter RS-232

ODW-720-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

⠿ Unique solutions for serial RS-232 protocols
- Data rates to 250 kbit/s and up to 12 data bits
- Dual channel for data or status
- Half- and full duplex bus mode (Y/V mode)

⠿ Extensive resilient fibre optic network solutions
- Ring recovery < 1 ms
- Latency < 0.5 ms allowing 250 units per ring
- Galvanically isolated fault status output

CE   FC Part 15   c(UL)us LISTED   **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-720-F2 has been designed to allow the use of fibre optic cables on RS-232 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-720 draws on Westermo's many years of knowledge of serial protocols and can even transmit a second data channel if necessary.
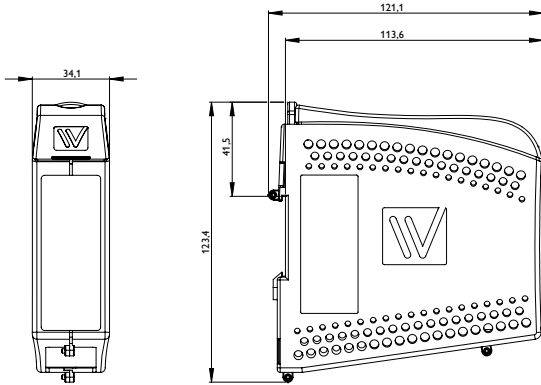
Large ring networks can be created to provide network resilience to guarantee system functionality, even if a cable is damaged. The ring recovery time ensures that the network devices are not aware of the failure. The fault contact provides a method to communicate network failures.

Ordering Information

Art.no	Description
3651-0722	ODW-720-F2
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications ODW-720-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
RS-232	1 x 300 bit/s – 250 kbit/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