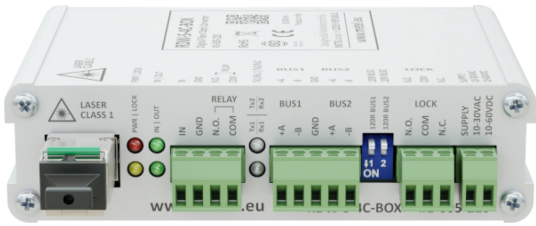


Optical converters

xDW-S-4C-BOX

- Compatibility with all RS485 systems up to 1Mbps
- Digital modulation
- 1x SC/PC optical connector (CWDM)
- 2x RS485 or 1x RS422 up to 1Mbps
- 1x digital input
- 1x relay NO
- 1x LOCK NO/NC relay
- EN 50131-1 certification with PZTS Asset, Galaxy Dimension, MB-Secure
- Overvoltage protection
- Operating temperature from −40°C to +70°C



The xDW-S-4C digital optical converters are universally applicable for extending the RS485/422 bus over single-mode or multimode optical fibers. In addition, they allow a single digital contact to be transmitted over the same fiber in both directions.

The devices are developed and manufactured in the EU and meet NDAA requirements.

Available models

Order name	Order code
TDW-S-4C-BOX	1-505-220
RDW-S-4C-BOX	1-605-220



Technical parameters

RS485

Count	2
Speed	max. 1 Mbps
Surge protection	600 W waveform 10/1000 μ s

OPTICAL PORT

Optical performance	-14 - -8 / -10 - 0 dBm (SM / MM)
Sensitivity	-31 dBm
Connector	SC/PC
MM 50/125 μ m	6 km
MM 62,5/125 μ m	4 km
SM 9/125 μ m	20 km

LOCK RELAY

Count	1
Max. Load	125 VAC / 0.5 A or 60 VDC / 0.3 A
Type of contact	Switching

RELAY OUTPUT

Count	1
Max. Load	125 VAC / 0.5 A or 60 VDC / 0.3 A
Type of contact	NO
	(1:1 bidirectional transfer of DI state to RELAY OUTPUT)
	DI switched = terminals N.O. and COM switched
	DI open = N.O. and COM terminals open
	Converter without power supply = N.O. and COM terminals open

DIGITAL INPUT

Count	1
Digital mode	NC / NO

POWER

Input voltage range	10 - 30 VAC / 10 - 60 VDC
Power consumption	Max. 1.5 W
Surge protection	600 W waveform 10/1000 μ s



ENVIRONMENT

Operating temperature	-40...+70 °C
Storage temperature	-40...+70 °C
Humidity	Max. 95 %

MECHANICAL

Weight	0.22 kg
Dimensions - h / w / d	30 x 110 x 92 mm

Standards and protocols

Standard	Note
Modbus	RTU
RS485	Compatible with all RS485 buses up to 1 Mbps

EMC and safety

Standard	Level	Note
EN 55032		EMC of multimedia devices - emission requirements
EN 55035		EMC of multimedia devices - immunity requirements
EN 62368-1		Safety requirements of Information technology equipment
EN IEC 63000		The Assessment Of Electrical And Electronic Products With Respect To The ROHS
EN 50130-4 ed. 2		Alarm systems - Part 4: Electromagnetic compatibility
EN 50131-1	4	Alarm systems - system requirements
EN 50131-3	4	Alarm systems - control panels
EN 61000-4-2	4 kV	Contact discharge
EN 61000-4-2	4 kV	Air discharge
EN 61000-4-3	10 V/m	Radiated HF field
EN 61000-4-4	500 V	Bursty
EN 61000-4-5	500 V	Shock impulses
EN 61000-4-8	30 A/m	Magnetic field
EN 61000-6-2		Immunity - industrial environment

Notes

- The manufacturer reserves the right to change technical parameters without prior notice.

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Dimensions

