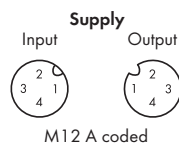
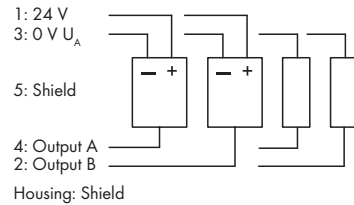
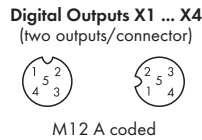
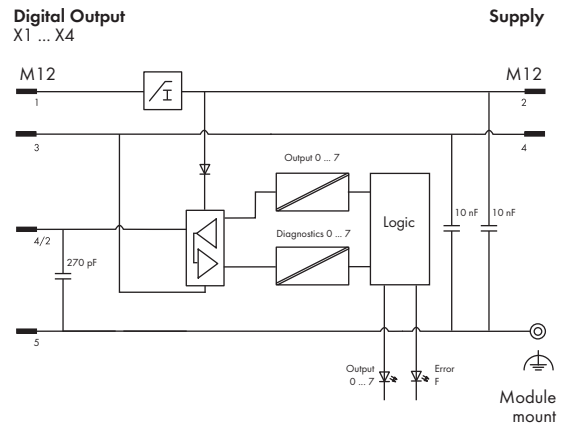


- 1: RD+/TD+
  - 2: RD-/TD-
  - 3: TD-/RD-
  - 4: TD+/RD+
  - 5: GND
- Housing: Shield



- 1: 24 V U<sub>LS</sub>
- 2: 24 V U<sub>A</sub>
- 3: 0 V U<sub>LS</sub>
- 4: 0 V U<sub>A</sub>

**Block diagram of an output**



**Technical Data**

**Information on actuator selection:**

Front-end cycle time 90% (hardware)	max. 0,5 $\mu$ s
Edge steepness	T <sub>ON/OFF</sub> : typ. < 0,2 $\mu$ s
Front-end jitter/skew (output)	< 0,2 $\mu$ s
Protection against reverse voltages	$\leq$ 0,5 A
Type of load	Inductive, resistive loads and lamps
Switching frequency	Inductive load upon request Resistive load upon request Lamp load upon request
Type of protective circuit	External protection (e.g., recovery diodes)

**Operating state influence on output:**

PLC CPU stop	Acc. to substitute value strategy
Fieldbus disruption	Acc. to substitute value strategy
S-bus (system bus) disruption	0 V status
Supply voltage under rated voltage	
tolerance	0 V status
Interruption of supply voltage	0 V status
Output operation	Non-latching
Overload behavior	Automatic restart

**System bus:**

Connection type (3)	M12 connectors, B coded, 5 poles, shielded
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**Standards and approvals:**

Conformity marking	CE
UL 508	
BVS 15 ATEX E 098 X	II 3G Ex nA IIC T5 Gc, II 3D Ex tc IIIB T90°C Dc
IECEx BVS 15.0083X	Ex nA IIC T5 Gc, Ex tc IIIB T90°C Dc

**Technical Data**

**Isolation:**

Channel - Channel	No
U <sub>LS</sub> , U <sub>A</sub> , system bus	500 VDC each

**Configurable functions:**

Inversion (per channel)	On/off
Substitute value strategy (per channel)	Switch substitute value/hold last value
Substitute value (per channel)	0/1
Manual mode (per channel)	On/off
Manual mode value (per channel)	0/1
Online simulation (per channel)	Lock/Unlock; simulation value: 0/1; diagnostics

**I/O diagnostics:**

I/O diagnostics (per channel)	Overtemperature, actuators
I/O diagnostics (per module)	Undervoltage (U <sub>LS</sub> + U <sub>A</sub> )

**Process image:**

Process data width	1-byte data + status
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**LED indicators:**

SB: System bus status	LED (green/red/orange)
F: Error status	LED (red)
0 ... 7: Output signal status	LED (yellow/red)
U <sub>LS</sub> + U <sub>A</sub> : Supply status	LED (green)
Indicators	Non-latching

**General Specifications**

Dimensions (mm) W x H x L	50 x 35,7 x 117
Weight	270 g