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Axioline E PROFIBUS device in a metal housing with 8 IO-Link ports and 4 digital inputs, 24 V DC, M12 fast connection technology

Why buy this product

- ☑ Baud rate of up to 12 Mbaud (automatic baud rate detection)
- ☑ Connection of four IO-Link devices with additional digital input
- ☑ Connection of four IO-Link actuators with additional power supply
- ☑ Diagnostic and status indicators
- Short-circuit and overload protection of the sensor supply
- ☑ IP65/IP67 degree of protection



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 763608
GTIN	4046356763608

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	60 mm
Height	185 mm
Depth	38 mm
	The height is 194.5 mm including the mounting plate. With fixing clips pulled out, the height is 212 mm. The depth is 38 mm including the mounting plate (30.5 mm without the mounting plate).



Technical data

Dimensions

Drill hole spacing	198.5 mm
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Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	5 % 95 %
Permissible humidity (storage/transport)	5 % 95 %
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Degree of protection	IP65/IP67

General

Housing material	Zinc die-cast
Mounting type	Wall mounting or DIN rail mounting; both with mounting plate.
Net weight	710 g

Interfaces

Designation	PROFIBUS DP
No. of channels	2
Connection method	M12 fast connection technology
Note on the connection method	B-coded
Designation connection point	Copper cable
Transmission speed	9.6 kbps 12 Mbps (Automatic baud rate detection)
Transmission physics	PROFIBUS-DP-compliant copper cable
Address area assignment	1 126, adjustable
Number of positions	5

System limits of the bus coupler

Designation	PROFIBUS DP
Equipment type	PROFIBUS slave
System-specific protocols	PROFIBUS protocols DP V1

Supply

Designation	Module electronics and sensors (U _s)
Connection method	M12 connector (T-coded)
Number of positions	4
Supply voltage	24 V DC
Nominal supply voltage range	18 V DC 31.2 V DC (including all tolerances, including ripple)
Current consumption	max. 12 A
Typical current consumption	170 mA ±15 % (at 24 V DC)
Designation	Actuators (U _A)
Connection method	M12 connector (T-coded)
Number of positions	4



Technical data

Supply

Supply voltage	24 V DC
Nominal supply voltage range	18 V DC 31.2 V DC (including all tolerances, including ripple)
Current consumption	max. 12 A
Typical current consumption	30 mA ±15 % (at 24 V DC)

Supply of the IO-Link ports

Nominal voltage for I/O supply	24 V DC
Nominal current for every IO-Link port	150 mA (at C/Q (pin 4), maximum of 1.6 A over all 8 IO-Link C/Q and L+cables)
	200 mA (at L+/L- (pin 1 and pin 3), during startup, up to 1.6 A for short periods)
	max. 2 A (at U _A (IO-Link B ports, pin 2 and pin 5))
Type of protection	Overload protection
Permissible cable length	< 20 m

Digital inputs

Description of the input	IO-Link ports in digital input (DI) mode
Connection method	M12 connector, X01 X04 have double occupancy
Connection technology	3-wire
Nominal input voltage U _{IN}	24 V DC
Input voltage range "0" signal	-0.3 V DC 5 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Nominal input current	typ. 3 mA
Sensor current per channel	max. 200 mA (from L+/L-)
Total sensor current	max. 1.6 A (from L+/L-)
Input filter time	< 1000 µs
Input frequency	0.5 kHz
Type of protection	Overload protection
	Short-circuit protection for the sensor supply

IO-Link inputs

Description of the input	Digital inputs at pin 2 for type A ports
Connection method	M12 connector, X01 X04 have double occupancy
IO-Link ports	4 M12 fast connection technology 3-wire Class A
	4 M12 fast connection technology 3-wire Class B
Nominal input voltage U _{IN}	24 V DC
Input voltage range "0" signal	-0.3 V DC 5 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Nominal input current	typ. 3 mA
Sensor current per channel	max. 200 mA (from L+/L-)
Total sensor current	max. 1.6 A (from L+/L-)
Input filter time	< 1000 µs
Input frequency	0.5 kHz



Technical data

IO-Link inputs

Type of protection	Overload protection
	Short-circuit protection for the sensor supply

Digital outputs

Output description	IO-Link ports in digital output (DO) mode
Connection method	M12 connector, X01 X04 have double occupancy
Connection technology	3-wire
Number of outputs	max. 8
Nominal output voltage	24 V DC
Maximum output current per channel	150 mA
Maximum output current per device	1.2 A
Nominal load, ohmic	3.6 W (160 Ω, at nominal load)
Nominal load, inductive	3.6 VA (0.8 H, 160 Ω, at nominal load)
Signal delay	max. 150 µs (when switched on)
	max. 200 µs (when switched off)
Switching rate	1 per second, maximum (at nominal inductive load)
Limitation of the voltage induced on circuit interruption	-15 V DC
Output voltage when switched off	max. 1 V
Output current when switched off	max. 300 μA
Type of protection	Overload protection
	Short-circuit protection
Behavior with overload	Shutdown with automatic restart

Electrical isolation

Test section	24 V supply (communications power and sensor supply, IO-Link ports)/ bus connection 500 V AC 50 Hz 1 min.
	24 V supply (communications power and sensor supply, IO-Link ports)/ FE 500 V AC 50 Hz 1 min.
	Bus connection / FE 500 V AC 50 Hz 1 min.
	24 V supply (actuator supply)/24 V supply (communications power and sensor supply, IO-Link ports) 500 V AC 50 Hz 1 min.
	24 V supply (actuator supply)/bus connection 500 V AC 50 Hz 1 min.
	24 V supply (actuator supply)/FE 500 V AC 50 Hz 1 min.

Standards and Regulations

Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g, 11 ms period, half-sine shock pulse
	Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 25;
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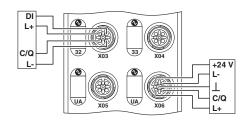
Technical data

Environmental Product Compliance

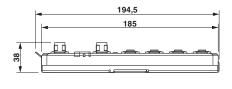
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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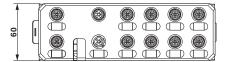
Drawings

Connection diagram

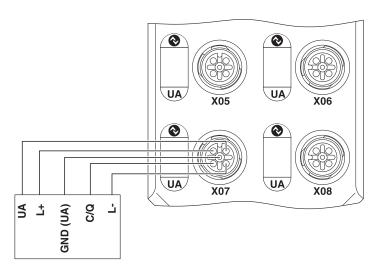


Dimensional drawing





Connection diagram



Approvals

Approvals

Approvals

UL Listed / cUL Listed / PROFIBUS / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed



Approvals

Approval details

UL Listed

UL LISTED

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 140324

cUL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 140324

PROFIBUS

http://www.profibus.com

Z01808

cULus Listed



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