

1088128

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Axioline Smart Elements, Communication module, interface RS-485: 1, Process data width: 20 bytes, Transparent protocol, degree of protection: IP20

Product description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element is used to operate standard I/O devices with a serial interface on a bus system.

Your advantages

- One serial input and output channel in RS-485 format
- · Data is transmitted in transparent mode
- Transmission speed can be set up to 230,400 bps
- · Number of data bits, stop bits and parity can be set
- · Device rating plate stored

Commercial data

Item number	1088128
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR05
Product key	DRIB51
GTIN	4055626888002
Weight per piece (including packing)	35 g
Weight per piece (excluding packing)	35 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	58,7 55,2 35,8 7 7 7 8
Width	14.9 mm
Height	62.2 mm
Depth	62 mm

Notes

Note on application

Note on application	Only for industrial use
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Interfaces

Smart Element interface

Number of interfaces	1
Connection method	Card edge connector
Transmission speed	See system in which you use the Smart Element.
Start time until ready to operate	< 500 ms

RS-485

Number of interfaces	1
Connection method	Push-in connection
Note on the connection method	Use shielded cables.
Transmission speed	1200 bps 230,400 bps (can be parameterized)
Transmission physics	Copper
Termination resistor	120 Ω (active, integrated)
Data bits	7 or 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

System properties

Module

ID code (hex)	none
Process data channel	160 bit
Input address area	20 Byte
Output address area	20 Byte



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Connection method

Required parameter data	10 Byte
Required configuration data	7 Byte
roduct properties	
Product type	I/O component
Product family	Axioline Smart Elements
Туре	modular
Mounting position	See the system in which the Smart Element is used.
Special properties	Process data width: 20 bytes
	Transparent protocol
Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ectrical properties	
Maximum power dissipation for nominal condition	0.7 W
Potentials: Communications power supply of the Smart Elements ((U _{SE})
Supply voltage	using card edge connectors
Potentials: I/O supply (U _P)	
Supply voltage	24 V DC (using card edge connectors)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 10 mA
	typ. 8 mA
Current consumption	min. 6 mA (without connected peripherals)
Protective circuit	Surge protection; See the system in which the Smart Element is used.
	Reverse polarity protection; Polarity protection diode
Electrical Confession for the confession of the	record potenty protection, recording protection along
Electrical isolation/isolation of the voltage ranges	500 V AC 50 Uz 4 zaiz
Test voltage: Communications supply / 24 V supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: Logic supply / RS-485 interface	500 V AC, 50 Hz, 1 min
Test voltage: Communications supply / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / RS-485 interface	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: RS-485 interface / functional ground	500 V AC, 50 Hz, 1 min
onnection data	
Connection technology	
Connection name	I/O
Note on the connection method	Please observe the information provided on conductor cross- sections in the "Axioline Smart Elements" user manual.
Conductor connection	
Connection method	Duck is connection

Push-in connection



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Conductor cross-section rigid	0.25 mm² 1.5 mm²
Conductor cross-section flexible	0.25 mm ² 1.5 mm ²
Conductor cross-section AWG	24 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Stripping length	8 mm

I/O

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross- sections in the "Axioline Smart Elements" user manual.
Conductor cross-section, rigid	0.25 mm ² 1.5 mm ²
Conductor cross-section, flexible	0.25 mm ² 1.5 mm ²
Conductor cross-section AWG	24 16
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Plug-in mounting (Smart Element slot)
Mounting position	See the system in which the Smart Element is used.

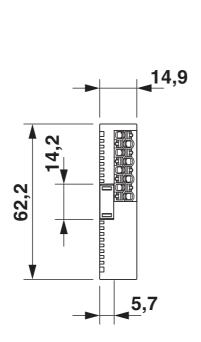


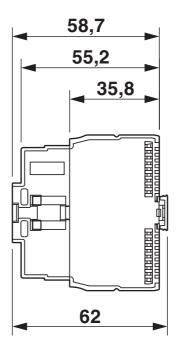
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Drawings

Dimensional drawing





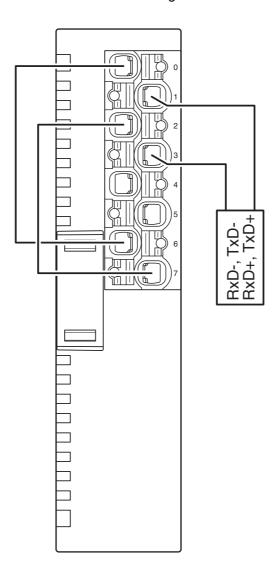
Dimensions



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Connection diagram



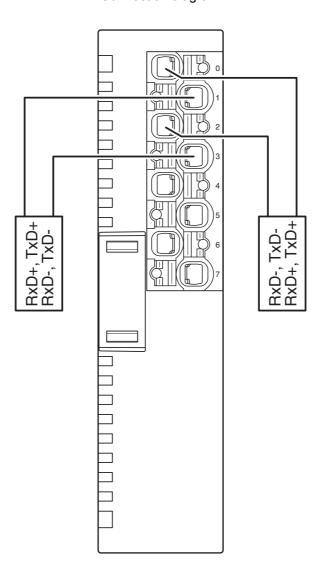
Smart Element as the network end point



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Connection diagram



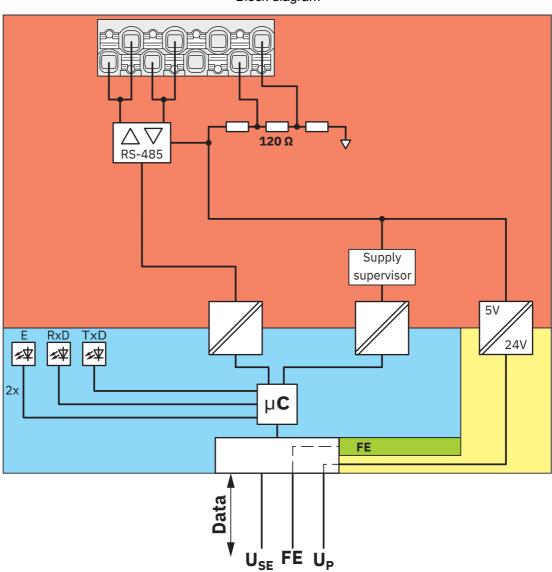
Smart Element in the middle of a network



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Block diagram



Internal wiring of the terminal points



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Approvals

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LR

Approval ID: LR23402057TA



Approval ID: TAA00003B0



RINA

Approval ID: ELE263623XG

ABS

Approval ID: 24-2510075-PDA



cULus Listed

Approval ID: E238705



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27242608	
	ECLASS-15.0	27242608	
ETIM			
	ETIM 9.0	EC001604	
UNSPSC			

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-l
China RoHS	
nvironment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	2.422 kg CO2e

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