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Axioline Smart Elements, Digital output module, Digital outputs: 16, 24 V DC, 500 mA, connection technology: 1-conductor, degree of protection: IP20

Product description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element emits digital signals.

Your advantages

- 16 digital outputs
- 24 V DC, 500 mA
- · Connection of actuators in 1-conductor technology
- · Substitute value behavior of the outputs can be parameterized for the Smart Element
- · Device rating plate stored

Commercial data

Item number	1088129
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRIB32
Product key	DRIB32
GTIN	4055626888101
Weight per piece (including packing)	38.9 g
Weight per piece (excluding packing)	35 g
Customs tariff number	85389091
Country of origin	DE

1088129

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Technical data

Dimensions

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

Notes

Note on application	
Note on application	Only for industrial use

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

System properties

Module	
ID code (hex)	none
Process data channel	16 bit
Input address area	0 Byte
Output address area	2 Byte
Required parameter data	9 Byte
Required configuration data	6 Byte

Output data

Digital:

Output name	Digital outputs
Connection method	Push-in connection
Connection technology	1-conductor
Number of outputs	16
Protective circuit	Short-circuit and overload protection; electronic
Output voltage	24 V

1088129

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Limitation of the voltage induced on circuit interruption	-32.8 V DC15 V DC
Maximum output current per module	max. 6 A (Also make sure that the maximum permissible current of 6 A is not exceeded!)
Nominal output voltage	24 V DC
Load min.	10 κΩ
Output voltage when switched off	max. 1 V
Output current when switched off	max. 300 μA
Nominal load, inductive	12 VA (1.2 H, 48 Ω , with nominal voltage)
Nominal load, lamp	12 W (at nominal voltage)
Nominal load, ohmic	12 W (48 Ω , with nominal voltage)
Switching frequency	max. 1200 per second (With resistive load, at least 50 mA load current)
	max. 1 per second (with inductive load)
	max. 16 per second (with nominal lamp load)
Reverse voltage resistance to short pulses	limited protection up to 0.5 A for 1 s
Behavior with overload	Shutdown with automatic restart
Behavior with inductive overload	Output can be destroyed
Signal delay	max. 100 μs (when switched on)
	max. 100 μs (when switched off, with at least 50 mA load current
Overcurrent shut-down	min. 0.7 A
Output current with ground connection interrupt when switched off	< 1 mA

Product 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.
Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	1.2 W
Potentials: Communications power supply of the Smart Elements	s (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. 6 A
Current consumption	min. 40 mA (without connected peripherals)
Protective circuit	Surge protection; See the system in which the Smart Element is used.
	Reverse polarity protection; parallel diode

1088129

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Electrical isolation/isolation of the voltage ranges	
Test voltage: Communications supply / 24 V supply (I/O)	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) / functional ground	500 V AC, 50 Hz, 1 min

Connection data

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.
	With a small conductor cross section and high current, the terminal point temperature can reach up to 45 K above the ambient temperature.
	When selecting the cables, observe the permissible operating temperature in accordance with IEC or UL.
onductor connection	
Connection method	Push-in connection
Conductor cross section rigid	0.25 mm ² 1.5 mm ²
Conductor cross section flexible	0.25 mm² 1.5 mm²
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
)	
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.
	With a small conductor cross section and high current, the terminal point temperature can reach up to 45 K above the ambient temperature.
	When selecting the cables, observe the permissible operating temperature in accordance with IEC or UL.
Conductor cross section, rigid	0.25 mm² 1.5 mm²
Conductor cross section, flexible	0.25 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
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

1088129

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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		
Standards and regulations		
Standards and regulations Protection class	III (IEC 61140, EN 61140, VDE 0140-1)	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)	
-	III (IEC 61140, EN 61140, VDE 0140-1) Smart Element slot	

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Drawings





Dimensions

Dimensional drawing

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Connection diagram

Connection in 1-conductor technology

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Connection diagram

AXL SE DO16/1 AXL SE PD16 GND



Connection in 2-conductor technology when using AXL SE PD \ldots (see data sheet)



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Internal wiring of the terminal points

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Approvals

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DI App	V proval ID: TAA00003B0
Hovds Register	LR Approval ID: LR23402057TA
۲	RINA Approval ID: ELE263623XG
AE App	3S proval ID: 24-2510075-PDA
· M	CULus Listed Approval ID: E238705

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Classifications

ECLASS

	ECLASS-13.0	27242604		
ETIM				
	ETIM 9.0	EC001599		
UNSPSC				
	UNSPSC 21.0	32151600		

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Environmental product compliance

EU RoHS				
Fulfills EU RoHS substance requirements	Yes			
Exemption	7(a), 7(c)-l			
China RoHS				
Environment 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.)	Lead(CAS: 7439-92-1)			
SCIP	1566ffa1-dd75-48e7-af6c-20ee81deec9e			
EF3.0 Climate Change				
CO2e kg	1.732 kg CO2e			

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