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Safety module - AXL F LPSDO8/3 1F - 2702171

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Safety-related digital output module, IP20 protection, for the SafetyBridge system. The module has four safe digital outputs with two-channel occupancy or 8 safe digital outputs with single-channel occupancy

Product Description

The safety module is an output module from the Axioline F product range with integrated safety logic designed for use in a

SafetyBridge Technology V3 system. The safety module can be used as part of an Axioline F station at any point within an EtherCAT®, EtherNet/IP™, Sercos, Modbus, PROFINET or PROFIBUS system. The module has four safe digital outputs for two-channel assignment or eight safe digital outputs for single-channel assignment.

Why buy this product

☑ Cost-effective system configuration, as no safety PLC or safe fieldbus system is required

☑ Flexible use, thanks to compatibility with all bus couplers from the Axioline F range

☑ Reduced installation time, thanks to fast wiring and easy handling

☑ Easy configuration using the free SAFECONF software

☑ Up to SIL 3 according to EN 61508

☑ Up to SILCL 3 according to EN 62061

☑ Up to cat. 4/PL e according to EN ISO 13849-1

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 004983
GTIN	4055626004983

Technical data

Dimensions

Width	53.6 mm
Height	126.1 mm
Depth	54 mm
Note on dimensions	Housing dimensions

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Ambient conditions

Ambient temperature (operation)	-35 °C ... 60 °C (Mounting position: any)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 75 % (on average, 85% infrequently, non-condensing)
Permissible humidity (storage/transport)	10 % ... 75 % (non-condensing)
Air pressure (operation)	70 kPa ... 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Degree of protection	IP20

Interfaces

Designation	Axioline F local bus (Note: not suitable for use in the Axioline F local bus of the Phoenix Contact AXC 3050 controller)
No. of channels	1
Connection method	Bus base module

Digital outputs

Output name	Digital outputs
Connection method	Direct plug-in technology
Connection technology	2, 3-wire
Number of outputs	4 (with two-channel assignment)
	8
Type of protection	Overload protection, freewheeling circuit for inductive loads, Discharge circuit for accelerated discharge of capacitive loads
Output voltage	24 V DC
Output current	max. 2 A (per channel)
	max. 1.5 A (per channel according to CUL_{US})
	max. 4 A (per group)
	max. 3 A (per group according to CUL_{US})
	max. 8 A (Total current of all outputs; Please observe the notes in the user manual.)
	max. 6 A (Total current of all outputs according to CUL_{US})
Maximum output current per channel	2 A
Maximum output current per module / terminal block	8 A

General

Mounting type	DIN rail
Net weight	222 g
Note on weight specifications	with connectors and bus base module

Axioline potentials

Designation	Axioline F local bus supply (U_{Bus})
Supply voltage	5 V DC (via bus base module)
Current consumption	typ. 260 mA (all outputs set; power supply by U_O of 19.2 V DC to 30.2 V DC)
	max. 280 mA

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Axioline potentials

Designation	Supply for digital output modules (U_O)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30.2 V DC (including all tolerances, including ripple)
Current consumption	typ. 25 mA (all outputs set; power supply by U_O with 30.2 V DC; without power supply to the actuator)
Type of protection	Protection against polarity reversal, EMC protective circuit, undervoltage detection

SafetyBridge properties

Connection to I/O modules	max. 16 (safe digital I/O modules)
Logic memory	30 kByte

Safety-related characteristic data

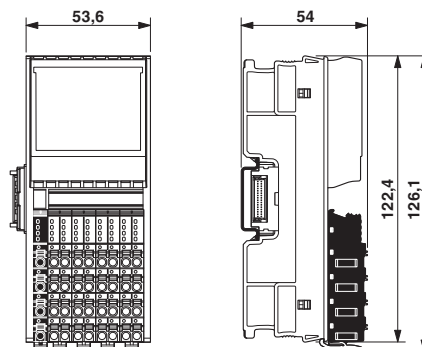| Designation	IEC 61508 - High demand
Safety Integrity Level (SIL)	max. 3 (two channel; dependent in parameterization and wiring)
Designation	IEC 61508 - Low demand
Safety Integrity Level (SIL)	max. 3 (two channel; dependent in parameterization and wiring)
Designation	EN ISO 13849
Performance level (PL)	max. e (two channel; dependent in parameterization and wiring)
Category	max. 4 (two channel; dependent in parameterization and wiring)
Designation	EN 62061
Safety Integrity Level Claim Limit (SIL CL)	max. 3 (two channel; dependent in parameterization and wiring)

Standards and Regulations

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

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Dimensional drawing

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Approvals

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UL Listed / cUL Listed / Functional Safety / Functional Safety / cULus Listed

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Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

Functional Safety		968/EZ 424.05/17

Functional Safety		968/EZ 424.05/17

cULus Listed	

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