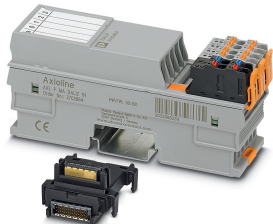


Communication module - AXL F MA DALI2 1H - 2702864

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Axioline F, DALI master, two channels, integrated DALI power supply unit, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

Product Description

The module is designed for use within an Axioline F station.

The 2-channel DALI master enables communication with two DALI networks including their bus power supply with up to 230 mA each.

Your advantages

- ✓ DALI master with integrated DALI bus supply
- ✓ Suitable for single master operation
- ✓ Electrical isolation of the DALI bus
- ✓ DALI bus protected against unintentional connection of mains voltage (up to 250 V AC)
- ✓ Device rating plate stored



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 463360
GTIN	4055626463360
Weight per Piece (excluding packing)	180.000 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

Width	35 mm
Height	126.1 mm
Depth	54 mm

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Technical data

Dimensions

Note on dimensions	The depth is valid when a TH 35-7,5 DIN rail is used (according to EN 60715).
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Ambient conditions

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

General

Mounting type	DIN rail
Color	traffic grey A RAL 7042
Net weight	190.5 g
Note on weight specifications	with connectors and bus base module
Mounting position	any (no temperature derating)

Interfaces

Designation	Axioline F local bus
Number	2
Connection method	Bus base module
Transmission speed	100 Mbps
Designation	DALI
Number	2
Connection method	Push-in connection
Note	The data apply for DALI bus 1 and DALI bus 2, respectively.
Connection method	Push-in connection
Number	2 (DALI 1, DALI 2)
Supply voltage	typ. 16 V DC (Bus voltage)
Output current	230 mA (guaranteed)
Current carrying capacity	max. 195 mA (Bus load, see derating)
Output current with short-circuit	max. 250 mA
Transmission speed	1200 bps
Type of protection	Bus protected up to 250 V AC, maximum

Axioline potentials

Designation	Axioline F local bus supply (U_{BUS})
Supply voltage	5 V DC (via bus base module)

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Technical data

Axialine potentials

Current consumption	max. 65 mA
Power consumption	max. 325 mW
Designation	Feed-in of supply voltage (U _i)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 250 mA
	max. 470 mA (at nominal voltage)
Power consumption	max. 8.8 W (Both channels loaded with 195 mA)
Protective circuit	Surge protection electronic (35 V, 0.5 s)
	Reverse polarity protection parallel diode; with external 5 A fuse
	Transient protection Suppressor diode
Protection	max. 8 A (polarity reversal protection up to 5 A)

Electrical isolation

Test section	5 V supply of the local bus (U _{Bus}) / 24 V supply (I/Os) 500 V AC 50 Hz 1 min.
	5 V supply of the local bus (U _{Bus}) / functional ground 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional ground 500 V AC 50 Hz 1 min.
	DALI 1 / DALI 2 500 V AC 50 Hz 1 min.
	DALI / 5 V supply of the local bus (U _{Bus}) 1.5 kV AC 50 Hz 1 min. 2.5 kV AC rated surge voltage (for additional isolation in accordance with EN 61010-2-201/IEC 61010-2-201)
	DALI/24 V supply (periphery) 1.5 kV AC 50 Hz 1 min. 2.5 kV AC rated surge voltage (for additional isolation in accordance with EN 61010-2-201/IEC 61010-2-201)
	DALI/functional ground 1.5 kV AC 50 Hz 1 min. 2.5 kV AC rated surge voltage (for additional isolation in accordance with EN 61010-2-201/IEC 61010-2-201)

Standards and Regulations

Immunity to ESD	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 6 kV contact discharge, 8 kV air discharge
Immunity to EF	Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
Immunity to burst	Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B, 2 kV
Immunity to surge	Noise immunity test in accordance with EN 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion B, supply lines DC: ±0.5 kV/±0.5 kV (symmetric/asymmetric), ±1 kV on unshielded I/O cables
Immunity to conducted interference	Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V

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Standards and Regulations

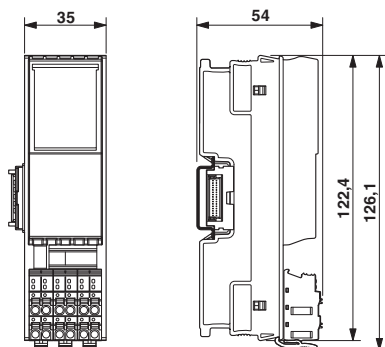
Interference emission	Noise emission test according to EN 61000-6-3 Class B
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g
	Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

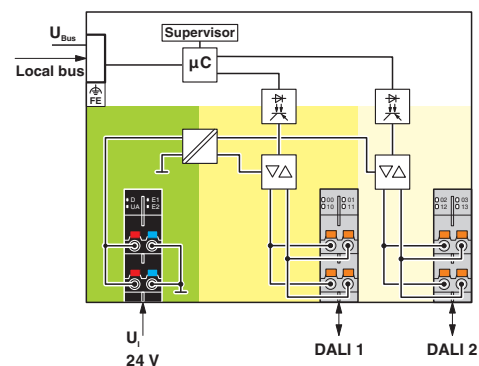
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Block diagram



Internal wiring of the terminal points

Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	27242608
eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242600

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Classifications

eCl@ss

eCl@ss 7.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001601
ETIM 6.0	EC001604
ETIM 7.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

cULus Listed

Ex Approvals

Approval details

cULus Listed



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

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Accessories

Accessories

Device marking

Insert label - EMT (35X28)R - 0801602



Insert label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: snapped into marker carrier, lettering field size: 35 x 28 mm, Number of individual labels: 500

DIN rail connector

Bus connector - AXL F BS H - 2700992



Axioline F bus base module for housing type H

Terminal marking

Zack marker strip - ZB 20,3 AXL UNPRINTED - 0829579



Zack marker strip for Axioline F (device labeling), in 2 x 20.3 mm pitch, unprinted, 25-section, for individual labeling with B-STIFT 0.8, X-PEN, or CMS-P1-PLOTTER

Zack Marker strip, flat - ZBF 10/5,8 AXL UNPRINTED - 0829580



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 10.15 mm, lettering field size: 4 of 10.15 x 5 mm and 1 of 5.8 x 5 mm, Number of individual labels: 50