

Base Module

M-LB-5000

SIL 3

- Base for protection module or function module
- Easy replacement of modules without tools
- Connection via screw terminals
- DIN rail mountable
- Up to SIL 3 acc. to IEC 61508

Base module for non-intrinsically safe protection modules or function modules



Function

The base module is the base for the modules of the surge protection system:

- Protection modules
- Function modules
- Place-holder modules

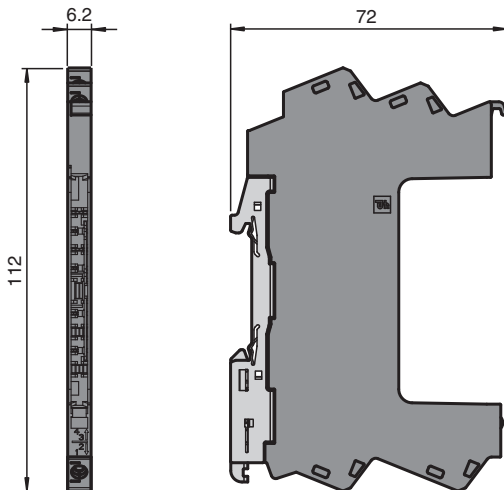
These modules are connected to the base module.

The protected and unprotected signal lines are connected to the device. The plugged modules will be grounded via the integrated earth connection.

The terminals of the base module are suitable for the connection of conductors and plug-in jumpers.

The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Dimensions



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Technical Data

General specifications

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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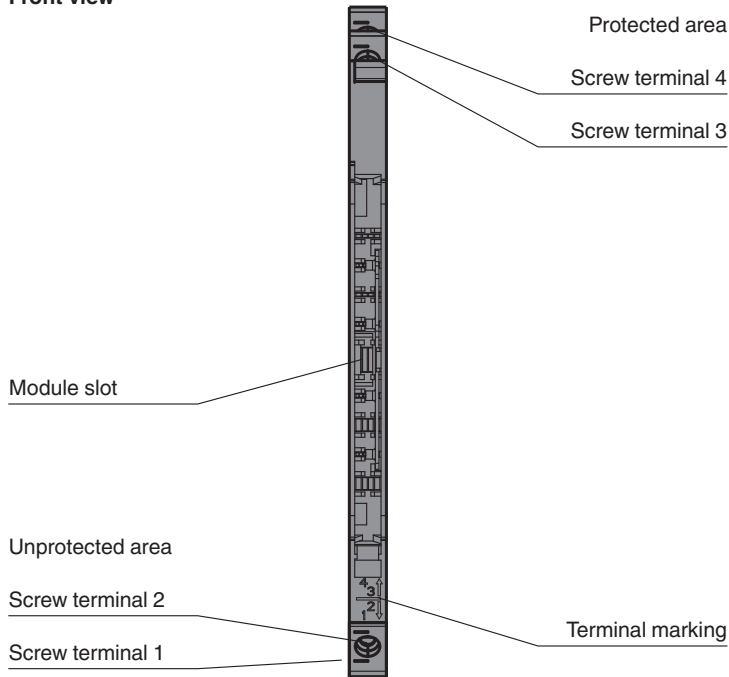
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Technical Data

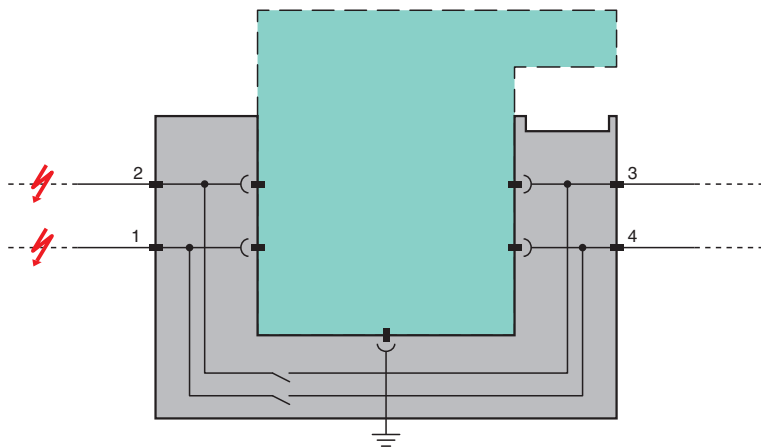
Number of signal lines	2	
Functional safety related parameters		
Safety Integrity Level (SIL)	SIL 3	
Supply		
Rated voltage	U _r	60 V AC/DC
Rated current	I _r	2 A
Input		
Connection	terminals 1, 2	
Output		
Connection	terminals 3, 4	
Conformity		
Degree of protection	IEC 60529:2013	
Functional safety	IEC/EN 61508:2010	
Surge protective devices for low voltage	EN 61643-21:2001+A1:2009+A2:2013 IEC 61643-21:2001+A1:2008+A2:2012	
Ambient conditions		
Ambient temperature	-40 ... 80 °C (-40 ... 176 °F) Observe the temperature range of the protection module or the function module, which is limited by derating.	
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)	
Relative humidity	max. 95 % , without condensation	
Mechanical specifications		
Degree of protection	IP20	
Connection	screw terminals , max. core cross section 1 x 2.5 mm ²	
Mass	approx. 40 g	
Dimensions	6.2 x 72 x 112 mm	
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001	
Data for application in connection with hazardous areas		
Certificate	BVS 17 ATEX E 070 X	
International approvals		
IECEX approval		
IECEX certificate	IECEX BVS 17.0061X	
General information		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .	

Assembly

Front view








Connection



Zone 2

















Matching system components

	M-UPR-03-S	Universal Power Rail, 3 conductors, length: 0.8 m
	M-LB-5143	Protection module for 1 signal line
	M-LB-5113	Protection module for 1 signal line
	M-LB-5141	Protection module for 1 signal line
	M-LB-5142	Protection module for 2 signal lines


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Matching system components

	M-LB-5211	Protection module for 1 signal line
	M-LB-5212	Protection module for 2 signal lines
	M-LB-5213	Protection module for 1 signal line
	M-LB-5214	Protection module for 2 signal lines
	M-LB-5241	Protection module for 1 signal line
	M-LB-5242	Protection module for 2 signal lines
	M-LB-5243	Protection module for 1 signal line
	M-LB-5111	Protection module for 1 signal line
	M-LB-5112	Protection module for 2 signal lines
	M-LB-5114	Protection module for 2 signal lines
	M-LB-5300	Power Feed Module
	M-LB-5400	Fault Status Module
	M-LB-5500	Maintenance Status Module
	M-LB-5900	Place holder module for non-intrinsically safe protection modules or function modules
	M-LB-5144	Protection module for 2 signal lines
	M-LB-5244	Protection module for 2 signal lines

Accessories

	M-UPR-I	Separation wall for universal power rail
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