



# Base Module

## M-LB-Ex-5000

**SIL 3**

- Base for protection 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 intrinsically safe protection modules



### Function

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

- Protection modules
- Place-holder modules

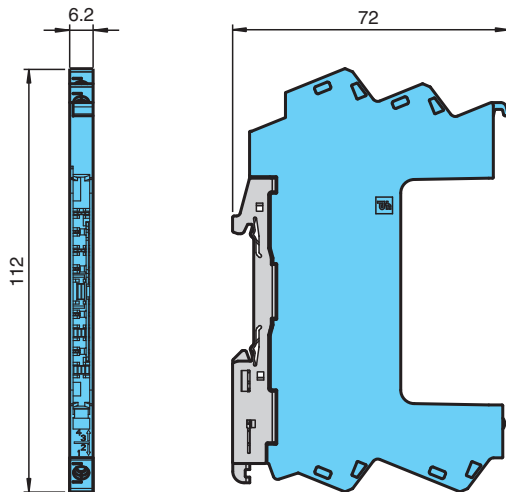
These modules are connected to the device.

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

Number of signal lines	2
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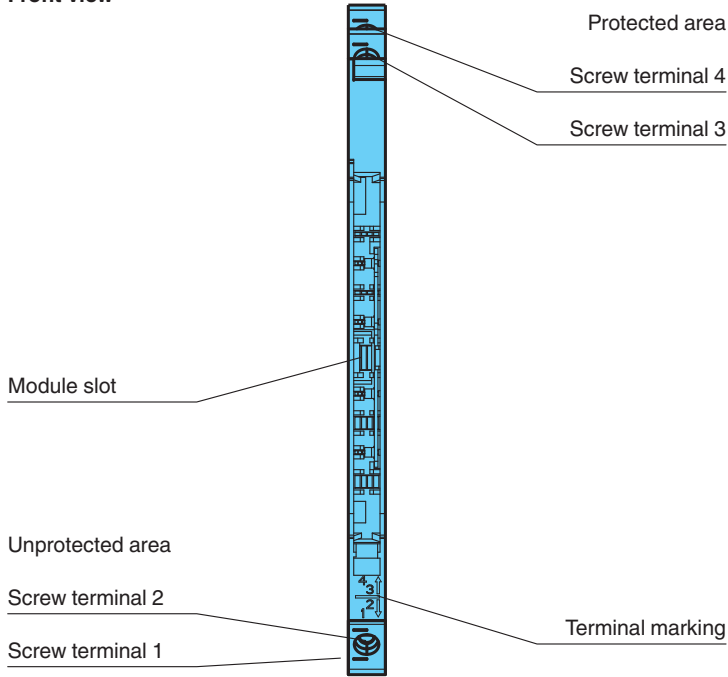
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

## Technical Data

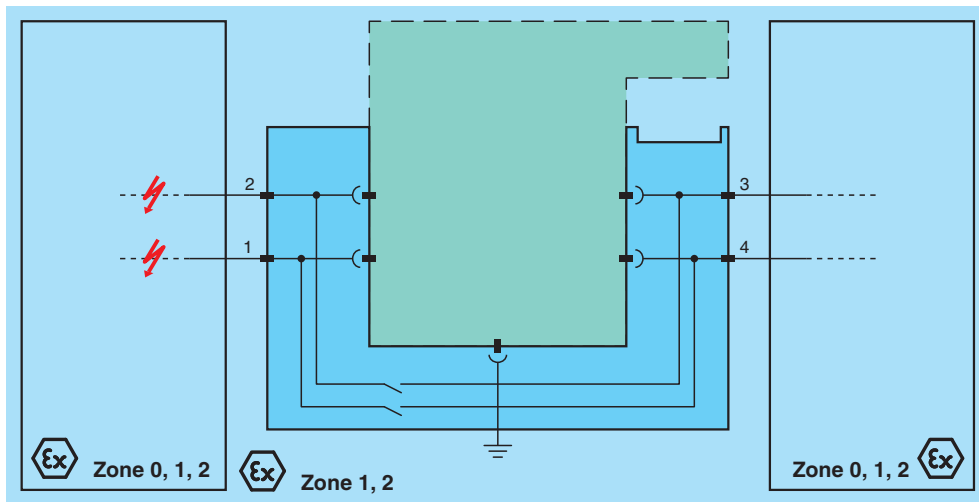
<b>Functional safety related parameters</b>		
Safety Integrity Level (SIL)		SIL 3
<b>Supply</b>		
Rated voltage	$U_r$	30 V AC/DC
Rated current	$I_r$	2 A
<b>Input</b>		
Connection		terminals 1, 2
<b>Output</b>		
Connection		terminals 3, 4
<b>Conformity</b>		
Degree of protection		IEC 60529:2013
Functional 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
<b>Ambient conditions</b>		
Ambient temperature		-40 ... 80 °C (-40 ... 176 °F) Observe the temperature range of the protection module, which is limited by derating.
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		max. 95 % , without condensation
<b>Mechanical specifications</b>		
Degree of protection		IP20
Connection		screw terminals , max. core cross section 1 x 2.5 mm <sup>2</sup>
Mass		approx. 40 g
Dimensions		6.2 x 72 x 112 mm
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
<b>Data for application in connection with hazardous areas</b>		
EU-type examination certificate		BVS 17 ATEX E 069 X
<b>International approvals</b>		
IECEx approval		
IECEx certificate		IECEx BVS 17.0061X
<b>General information</b>		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

**Assembly**






Front view



**Connection**
















**Matching system components**

	<b>M-UPR-03-S</b>	Universal Power Rail, 3 conductors, length: 0.8 m
	<b>M-LB-Ex-5900</b>	Place holder module for intrinsically safe protection modules
	<b>M-LB-Ex-5141</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5143</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5113</b>	Protection module for 1 signal line


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## Matching system components

	<b>M-LB-Ex-5242</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5244</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5212</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5214</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5241</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5211</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5243</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5213</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5144</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5114</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5142</b>	Protection module for 2 signal lines
	<b>M-LB-Ex-5111</b>	Protection module for 1 signal line
	<b>M-LB-Ex-5112</b>	Protection module for 2 signal lines

## Accessories

	<b>M-UPR-I</b>	Separation wall for universal power rail
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