



## Surge Protection Barrier

### M-LB-2.150.T3.D

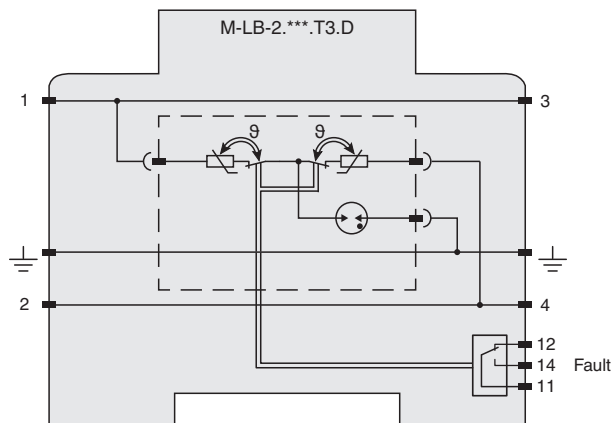
- Surge protection for 2 supply lines
- Type 3 acc. to EN 61643-11
- Nominal voltage 120 V AC
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



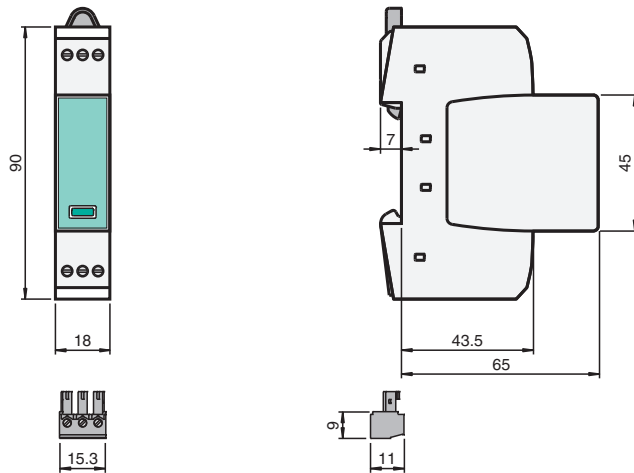
### Function

This device is a modular surge protection barrier (type 3 acc. to EN 61643-11) with error message output (floating changeover contact). The complete device consists of a base module and plug-in protection modules and is ready for installation. The base part offers multifunctional terminals for connection of conductors and busbars. Every protection module is locked in the base module and can be changed without tools via release buttons.

### Connection



## Dimensions



## Technical Data

General specifications			
Device type	type 3 acc. to EN 61643-11:2013 class III acc. to IEC 61643-1:2011		
Number of protected supply lines	2		
Suitable components	protection module M-LB-2.150.T3.M		
Electrical specifications			
Nominal voltage	120 V AC, 50 ... 60 Hz		
Maximum continuous operating voltage	$U_c$	150 V AC, 50 ... 60 Hz 150 V DC	
Nominal discharge current (8/20 $\mu$ s)	$I_n$	2 kA	
Max. surge current (8/20 $\mu$ s)	$I_{max}$	4 kA	
Voltage protection level	$U_p$	max. 640 V (L-N) max. 800 V (L/N-PE)	
Reaction time	$t_A$	max. 25 ns (L-N) max. 100 ns (L/N-PE)	
Short-circuit-proof	6 kA <sub>eff</sub> at max. mains-side overcurrent protection		
Overcurrent protection	max. 25 A gL/gG (B 25 A) , mains-side		
Fault indication output			
Connection	terminals 11, 12, 14		
Output	volt-free change-over contact		
Switch power	AC: 250 V / 0.5 A DC: 250 V/0.1 A; 125 V/0.2 A; 75 V/0.5 A; 24 V/0.5 A		
Indicators/settings			
Display elements	status display operating state (green) fault indication (red)		
Directive conformity			
Low voltage	Directive 2014/35/EU EN 61643-11:2012		
Conformity			
Degree of protection	IEC 60529:2013		
Shock resistance	EN 60068-2:2010		
Vibration resistance	EN 60068-2:2010		
Operating conditions			
Installation conditions	Mounting location indoor		
Ambient conditions			
Ambient temperature	-40 ... 80 °C (-40 ... 176 °F)		
Relative humidity	5 ... 95 %		

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

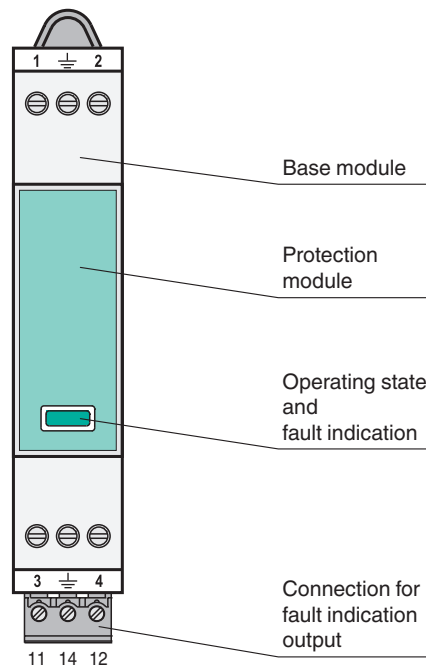
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**Technical Data**

Mechanical specifications	
Degree of protection	IP20
Core cross section	- min. 0.5 mm <sup>2</sup> solid/flexible - max. 4 mm <sup>2</sup> stranded/2.5 mm <sup>2</sup> flexible
Material	
Housing	thermoplastic, color grey , UL 94 V-0
Mass	approx. 120 g
Dimensions	18 x 90 x 72 mm (0.7 x 3.6 x 2.8 inch) (W x H x D) , 1 TE acc. to DIN 43880
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
General information	
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



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