



Surge Protection Barrier

M-LB-4.150TNS.D

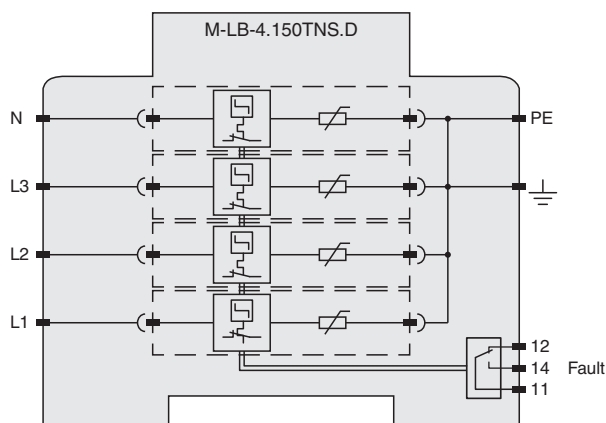
- Surge protection for 4 supply lines
- Type 2 acc. to EN 61643-11
- For TN-S systems (120 V AC/240 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



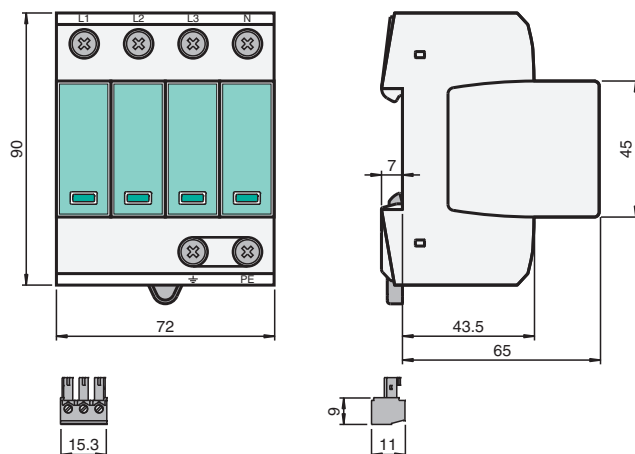
Function

This device is a modular surge protection barrier (type 2 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. Every protection module is locked in the base module and can be changed without tools via release buttons.

Connection



Dimensions



Technical Data

Search characteristics		
Network configuration		TN-S
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		4
Suitable components		protection module M-LB-1.150.M
Electrical specifications		
Nominal voltage		120 V AC, 50 ... 60 Hz 240 V AC, 50 ... 60 Hz
Maximum continuous operating voltage	U _c	150 V AC, 50 ... 60 Hz
Temporary over-voltage	U _t	175 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μs)	I _n	15 kA
Max. surge current (8/20 μs)	I _{max}	40 kA
Voltage protection level	U _p	max. 0.7 kV max. 0.55 kV at 5 kA
Reaction time	t _A	max. 25 ns
Short-circuit-proof		50 kA _{eff}
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
Shock resistance		EN 60068-2
Vibration resistance		EN 60068-2
Ambient conditions		
Ambient temperature		-40 ... 80 °C (-40 ... 176 °F)
Relative humidity		5 ... 95 %
Mechanical specifications		
Degree of protection		IP20

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

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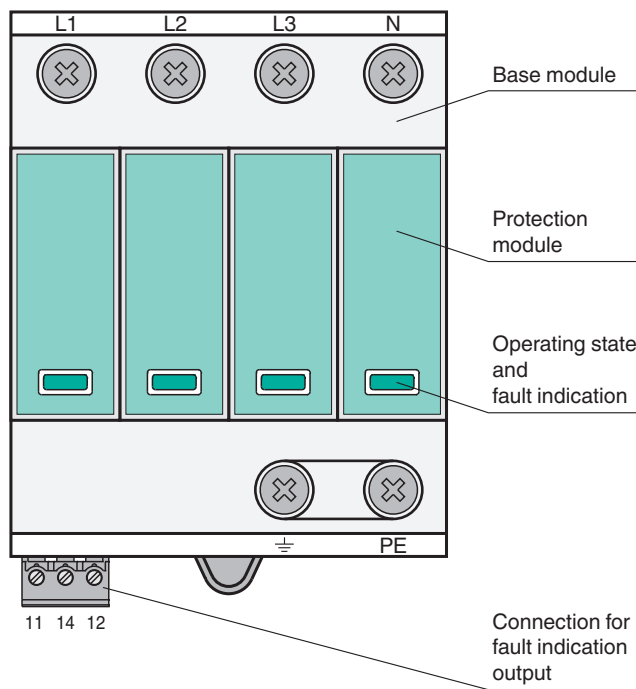
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Technical Data

Core cross section	- min. 1.5 mm² solid/flexible - max. 35 mm² stranded/25 mm² flexible - max. 1.5 mm² solid/flexible (for remote signalling contact)	
Material		
Housing	thermoplastic, color grey , UL 94 V-0	
Mass		approx. 480 g
Dimensions	72 x 90 x 72 mm (2.8 x 3.6 x 2.8 inch) (W x H x D) , 4 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 www.pepperl-fuchs.com .

Assembly

Front view



Accessories

	M-LB-1.150.M	Protection Module for Surge Protection Barrier
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