



## Surge Protection Barrier

### M-LB-1.275.D

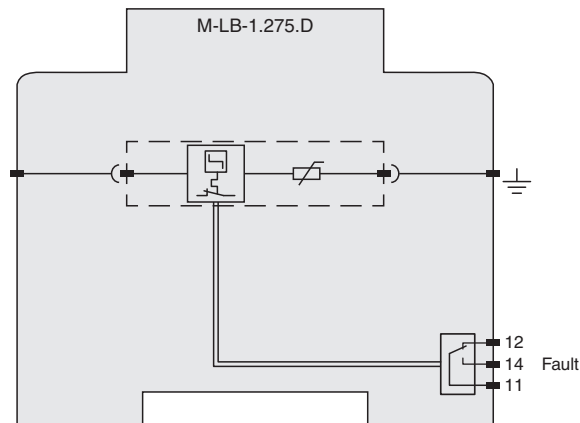
- Surge protection for 1 supply line
- Type 2 acc. to EN 61643-11
- For 230 V
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



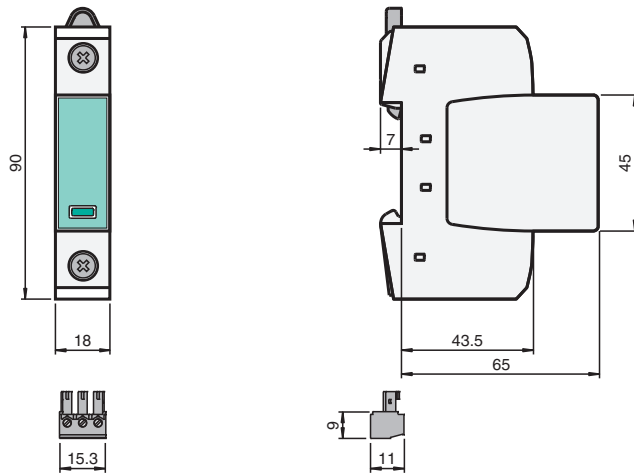
### Function

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

General specifications		
Device type	type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1	
Number of protected supply lines	1	
Suitable components	protection module M-LB-1.275.M	
Electrical specifications		
Nominal voltage	230 V AC, 50 ... 60 Hz	
Maximum continuous operating voltage	$U_c$	275 V AC, 50 ... 60 Hz 350 V DC
Temporary over-voltage	$U_t$	335 V / 5 s (TOV withstand)
Nominal discharge current (8/20 $\mu$ s)	$I_n$	20 kA
Max. surge current (8/20 $\mu$ s)	$I_{max}$	40 kA
Voltage protection level	$U_p$	max. 1.25 kV max. 1 kV at 5 kA
Reaction time	$t_A$	max. 25 ns
Short-circuit-proof	50 kA <sub>eff</sub>	
Overcurrent protection	max. 125 A gG, 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	
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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## Technical Data

Core cross section	- min. 1.5 mm <sup>2</sup> solid/flexible - max. 35 mm <sup>2</sup> stranded/25 mm <sup>2</sup> flexible - max. 1.5 mm <sup>2</sup> solid/flexible (for remote signalling contact)
Material	
Housing	thermoplastic, color grey , UL 94 V-0
Mass	approx. 240 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
<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

