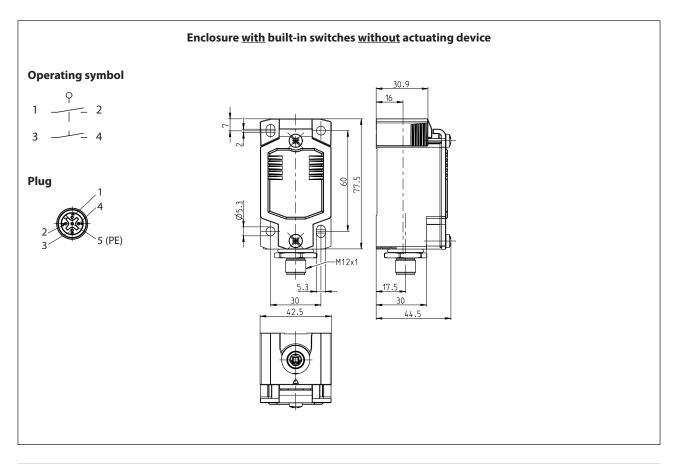


Metal bodied limit switch

Series MN78

Description MN78-02 04

Article number 6087000119



Electrical Data		
Rated insulation voltage	U _i	63 V
Rated impulse withstand voltage	U_{imp}	1,5 kV
Rated operational voltage	U _e	60 V AC / 24 V DC
Rated supply frequency AC		50 / 60 Hz
Overvoltage category		II acc. EN 60947-1 annex H table H1
Conv. thermal current	l _{the}	3 A
Minimum current		1 mA
Utilization category		AC 15, U _e /I _e 60 V / 3 A; DC 13, U _e /I _e 24 V / 1,5 A
Short-circuit protective device		Fuse 4 A gG
Rated conditional short-circuit current		400 A
Protection class		I

Technical Data



Mechanical data		
Enclosure		Die-cast aluminium
Cover		Sheet aluminium
Actuating force	F_{bmin}	14 N + Force of the actuating device
Operating temperature		-30 °C +75 °C
Storage temperature		-40 °C +80 °C
Protection type		IP66 / IP67 acc. EN 60529, Type 4X only with mounted actuating device
Pollution degree (built-in switch)		3
Contact material		silver
Device Class (built-in switch)		Category E (MC3+CC2+SC1) acc. EN 60947-1 annex Q
Contact type		2 N.O.
Operating rate	V	0,06 m/min ≤ V ≤ 30 m/min
Bounce duration		The value depends on the operating rate
Switchover time		The value depends on the operating rate
Switching frequency		≤ 60 / min.
Mechanical life		depending on the operating device up to 30 x 10 ⁶ operating cycles
Mission time		≤20 years
Connection		Plug M12x1, 5-pole, A-coded
Earth bolt		1 x M3,5
Weight		≈ 0,18 kg
Installation position		operator definable

Standards	
D	IN EN 60947-5-1
U	L 508 / CSA C22.2 No.14

EU Conformity	
acc. to directive 2014/35/EU (Low-Voltage-Directive)	

Approvals	
	CCC
	$_{C}UL_{US}$

Notes

The degree of protection specified (IP code) applies only to a properly closed cover and the use of an equivalent connector. The connector and the cable (fix or flexible mounted) must at least be suitable for the described ambient air temperatures. The connector must not be connected or disconnected when voltage is applied.

The mechanical life of the connector is 100 connection cycles.

The information on the switching travel can be found in the data sheets of the actuator, as these depend on the actuator used.

Approvals / properties applies only to the fully assembled device.