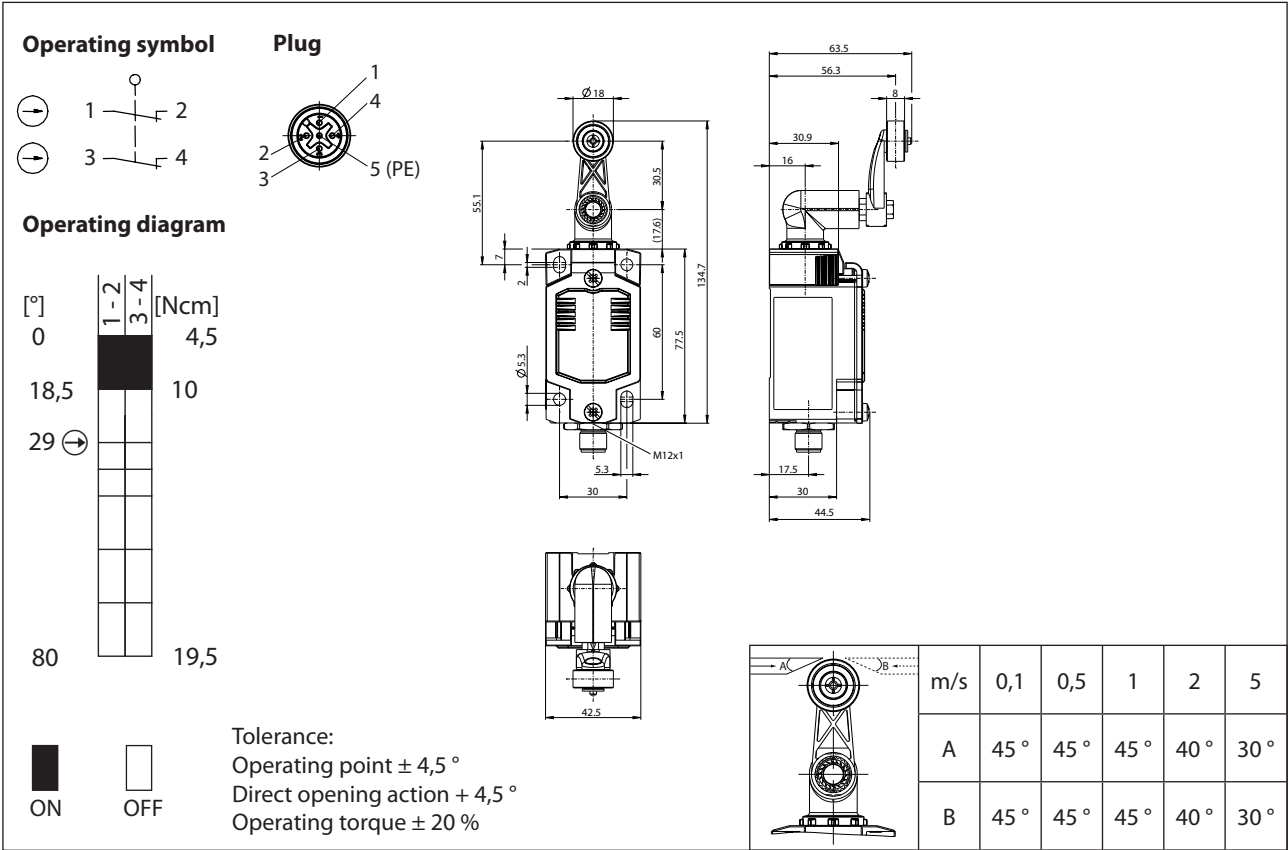


Metal bodied limit switch

Series MN78

Description MN78-20 AHK 04	Article number 6087000130
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Electrical Data			
Rated insulation voltage	U_i	63 V	
Rated impulse withstand voltage	U_{imp}	4 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	I_{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	
Direct opening action		acc. IEC/EN 60947-5-1, annex K	
Short-circuit protective device		Fuse 4 A gG	
Rated conditional short-circuit current		400 A	
Protection class		I	

Mechanical data	
Enclosure	Die-cast aluminium
Cover	Sheet aluminium
Actuator	Metal lever with plastic roller / lever in 15 ° increments adjustable
Operating temperature	-30 °C ... +75 °C
Storage temperature	-40 °C ... +80 °C
Protection type	IP66 / IP67 acc. EN 60529, Type 4X
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.C. (Form Zb)
Bounce duration	The value depends on the operating rate
Switchover time	The value depends on the operating rate
Switching frequency	≤ 60 / min.
Mechanical life	30 x 10 ⁶ operating cycles
Mission time	≤20 years
Connection	Plug M12x1, 5-pole, A-coded
Earth bolt	1 x M3,5
Weight	≈ 0,25 kg
Installation position	operator definable

Actuation
The actuating device is preferably started from 2 sides. The actuation assembly can be rotated in 45° increments such that 16 actuation directions are possible.

ID for safety engineering
B10d N.C. 20 x 10 ⁶ cycles

Standards
DIN EN 60947-5-1
UL 508 / CSA C22.2 No.14
DIN EN ISO 13849-1
DIN EN ISO 13849-2

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

Approvals
CCC
cUL _{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.