

83870 with cable output Roller plunger - metal with threaded barrel Part number 83876102



- IP 66/67
- Metal case
- cUL approval

Part numbers

	Type	Characteristics	Type of output
83876 102	Roller plunger - metal with threaded barrel	Plunger with 90° roller	Cable length 2 m

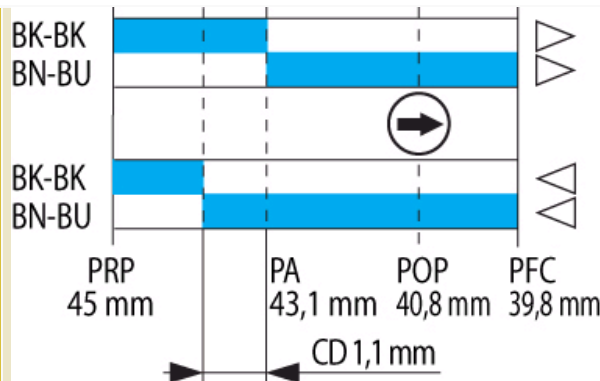
Specifications

Conformity to standards	IEC / EN 60947.5.1 Dimensional conformity : NFC 63145 Low voltage directive : 73/23/EEC and 93/68/EEC Electric shock protection : NFC 20030 ou IEC 60536 class 1, degree of pollution 3
Protection against electric shocks	
Degree of protection IEC 60529	
Degree of protection according to NEMA 250	Type 1, 3, 4, 6, 13

Electrical characteristics

Connection	
Operating temperature (°C)	-25 → +70 °C
Assigned impulse voltage (Uimp) - V	2500
Assigned insulation voltage Ui (V)	500
Thermal current I (A)	10
Low-load switching - Minimum voltage (V)	10
Low-load switching - Minimum current (mA)	100
Assigned working characteristics (EN 60 947.5.1, UL 508)	A300 = AC15 240 V 3 A / 120 V 6 A Alternating current Q150 = DC13 125 V 0.55 A Direct current
Electrical life according to IEC 947-5-1 appendix C	250 V 3 A AC15 500,000 operations 24 V 8 W DC13 500,000 operations
Electrical protection	Integral protective earth conductor Short-circuit protection device : IEC/EN 60947-5-1 Fuse 6 AgG
Approvals	UL 508, UL 50

Mechanical characteristics

Sequence Snap action	 The diagram illustrates the mechanical sequence and dimensions of the roller plunger switch. It shows two states: 'BK-BK' (closed) and 'BN-BU' (open). The sequence of movement is indicated by arrows: PRP (45 mm), PA (43,1 mm), POP (40,8 mm), and PFC (39,8 mm). The CD (center distance) is 1,1 mm.
Minimum operating force (N)	10
Minimum operating force (Nm)	-
Minimum total travel force (N)	30
Minimum total travel force (Nm)	-
Min. positive opening travel (N)	28
Min. positive opening travel (Nm)	-
Mechanical life (millions of operations)	28
Vertical approach speed	1 mm/min → 0,5 m/s
Horizontal approach speed (30° cam)	1 mm/min → 0,3 m/s
Weight (g)	200

Principles

Function

Four-terminal double break two-way contact element (form Zb) with positive opening NC contacts. The 2 moving contacts are electrically isolated from one another.

N°	Legend
1	Brown
2	Black
3	Blue
4	Green-yellow

Dimensions (mm)

Product

83 872 1

83 872 0

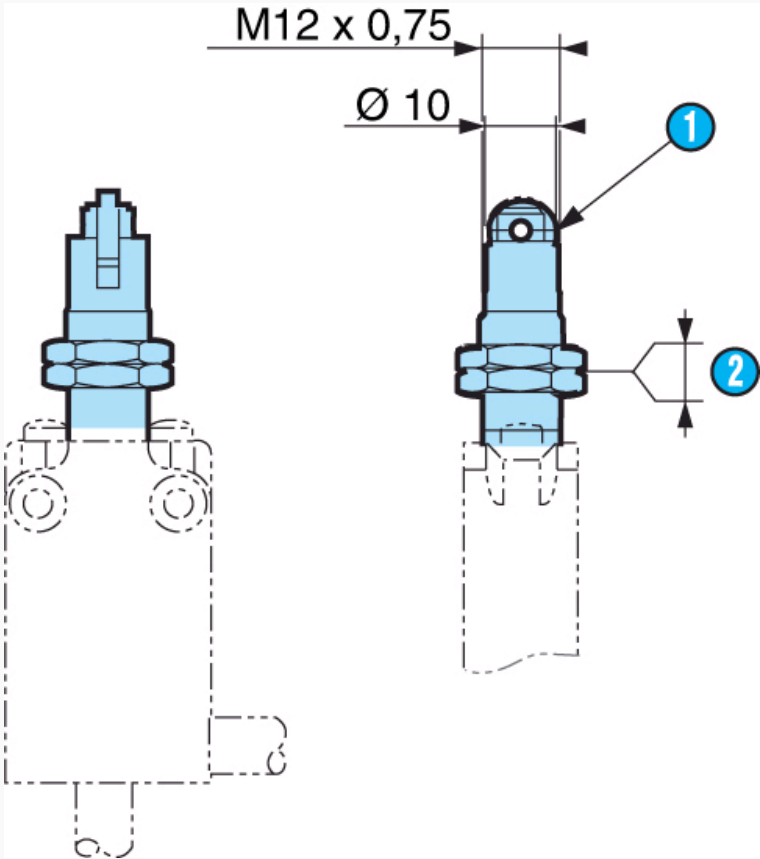
N°	Legend
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①	POP marking
②	Max.tightening thickness 10.5

Dimensions (mm)

Product

83 876 1



83 876 0

N°	Legend
①	POP marking
②	Max.tightening thickness 10.5

Other information

For other accessories and special contacts, or special modes of operation : please consult us.

Product adaptations



- Contact type
- Rear output
- Protective scraper seal
- Length of cable/connector/stripping
- Special marking

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