

<u>Characteristics</u>	<u>Action</u>	<u>Output</u>	<u>Length of Cable/Connector</u>	<u>Part Number</u>
Standard	SPDT-DB Positive Opening	Cable Side	1.0 meter	<u>83881101</u>
Standard	SPDT-DB Positive Opening	Cable Side (std)	2.0 meter (std)	<u>83881102</u>
Standard	SPDT-DB Positive Opening	Cable Side	3.0 meter	<u>83881103</u>
Standard	SPDT-DB Positive Opening	Cable Bottom	1.0 meter	<u>83881111</u>
Standard	SPDT-DB Positive Opening	Cable Bottom	2.0 meter	<u>83881112</u>
Standard	SPDT-DB Positive Opening	Cable Bottom	3.0 meter	<u>83881113</u>
Standard	SPDT-DB Positive Opening	Connector Side	M12 Connector	<u>83881120</u>
Standard	SPDT-DB Positive Opening	Connector Bottom	M12 Connector	<u>83881130</u>

83885 Series Metal Roller Plunger

<u>Characteristics</u>	<u>Action</u>	<u>Output</u>	<u>Length of Cable/Connector</u>	<u>Part Number</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Cable Side	1.0 meter	<u>83885101</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Cable Side (std)	2.0 meter (std)	<u>83885102</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Cable Side	3.0 meter	<u>83885103</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Cable Bottom	1.0 meter	<u>83885111</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Cable Bottom	2.0 meter	<u>83885112</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Cable Bottom	3.0 meter	<u>83885113</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Connector Side	M12 Connector	<u>83885120</u>
Roller Turned 90 Degrees	SPDT-DB Positive Opening	Connector Bottom	M12 Connector	<u>83885130</u>

Conforms to the following 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 or IEC 60536 class 1, degree of pollution 3.

Temperature specification: -25°/+70°C -13°/+158°F

Degree of protection

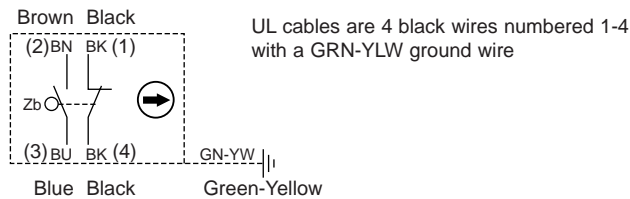
According to IEC 62529: IP 66 / 67
 According to NEMA : Type 1, 3, 4, 6, 13

Function

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

Principle

Snap-Action SPDT-DB



Electrical characteristics

Assigned impulse voltage (Uimp): 2500 V
 Assigned insulation voltage (Ui): 500 V
 Thermal rating (Ith): 10 A
 With standard contacts: Minimum voltage 10 V
 Minimum current 100 mA

Use category:
 according to IEC 947.5.1 AC15 = 250 V / 6 A
 DC 13 = 24 V / 8 A
 according to UL 508 A300 - Q150

Electrical protection

Integral earth wire
 Short-circuit protection device: IEC 947.5.1
 Fuse 6 AgC

Connections

5-core cable HO5VF, 75 mm², ext. Ø 8 mm (non-UL type cable)

Approvals

UL 508, UL 50

Types

Standard
 Plunger or roller at 90°

Standard Part Number (Cable length = 2.0 meters, exit: side)

Actuator Type

Metal plunger
 Metal roller plunger
 Metal plunger with threaded barrel
 Roller plunger - metal with threaded barrel
 Metal roller lever (operates in both directions)

Mechanical characteristics

Minimum positive opening force N (cmN)
 Minimum total travel force N (cmN)

Mechanical life millions of operations
 Weight g

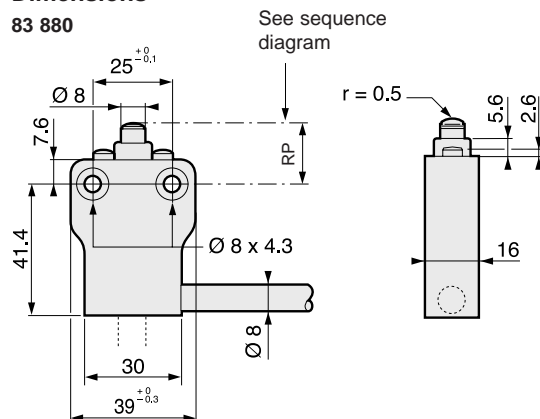
Sequences

Positions: nominal data

Dimensions

83 880

mm



(*) Other cable lengths:

modify the last digit of the part number. For example:

- 0 = M12 connector output
- 1 = 1.0 meter cable
- 2 = 2.0 meter cable (Standard)
- 3 = 3.0 meter cable
- 6 = 6.0 meter cable

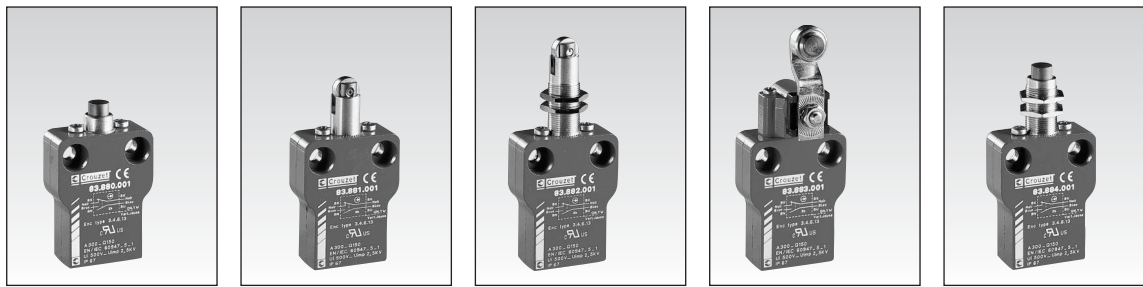
(**) For different cable outputs:

modify the next to the last digit of the part number:

- 0 = Cable side exit (Standard)
- 1 = Cable bottom exit
- 2 = Connector side exit
- 3 = Connector bottom exit

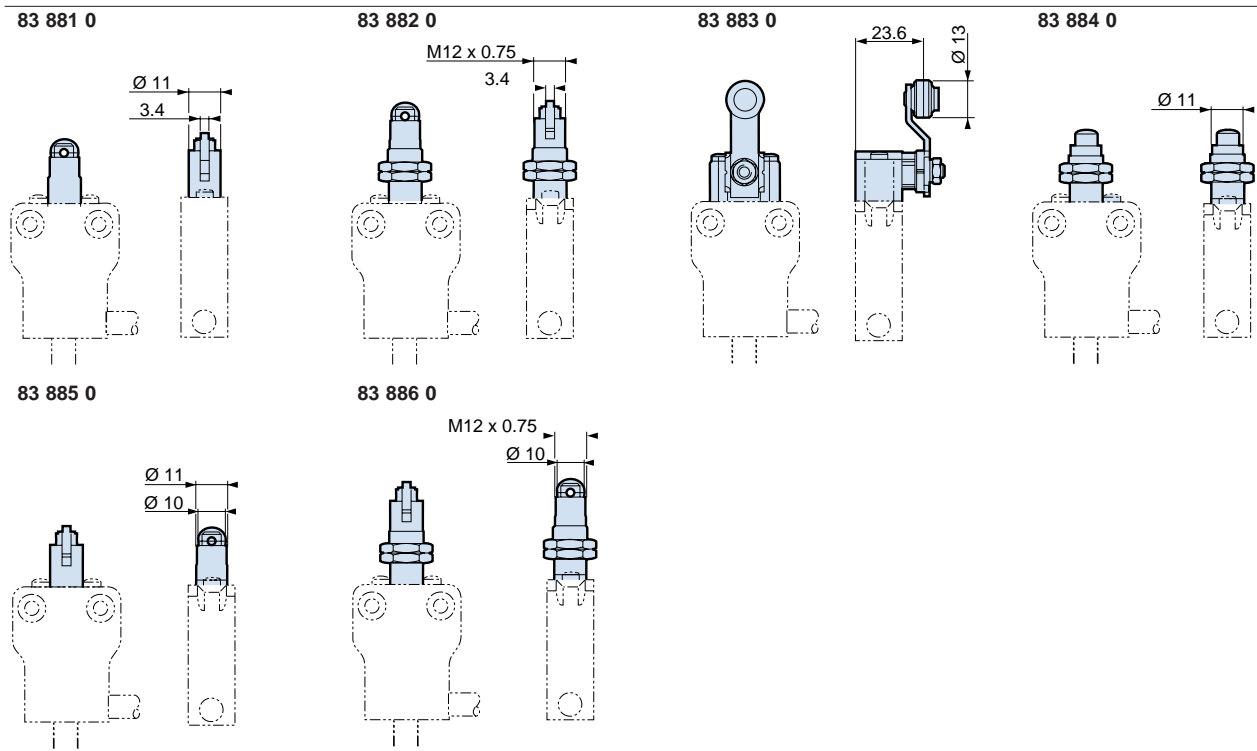
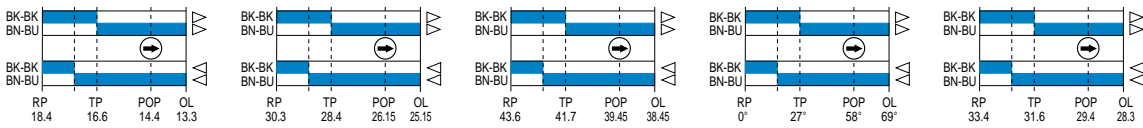
Other information

For different actuator arms, low voltage / low current contacts / low temperature, special contacts, custom wiring harness, etc...., please consult us.



83 880 0	83 881 0	83 882 0	83 883 0	83 884 0	1
83 880 102	83 881 102	83 882 102	83 883 102	83 884 102	2
83 880 103	83 881 103	83 882 103	83 883 103	83 884 103	

36 (10)	36 (10)	36 (10)	22 in.oz. (15cmN)	36 (10)
108 (30)	108 (30)	108 (30)	52 in.oz. (35cmN)	108 (30)
100 (28)	100 (28)	100 (28)	22 in.oz. (15cmN)	100 (28)
10	10	10	10	10
10.3 (290)	10.4 (295)	11.1 (315)	10.3 (290)	10.9 (310)



mm

To order, specify:	
Standard products	2 Part number Example: Limit switch 83 881 102
Standard products, non stocked	1 Type Examples: Limit switch 83 881 003 ; cable length = 3 m - Limit switch 83 881 006 ; cable length = 6 m