

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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83870 with cable output Metal plunger Part number 83870103


- IP 66/67
- Metal case
- cUL approval

Part numbers

| Type | Characteristics | Type of output |
|---------------------------------|-----------------|------------------|
| 83 870 103 Metal plunger | Standard | Cable length 3 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 |

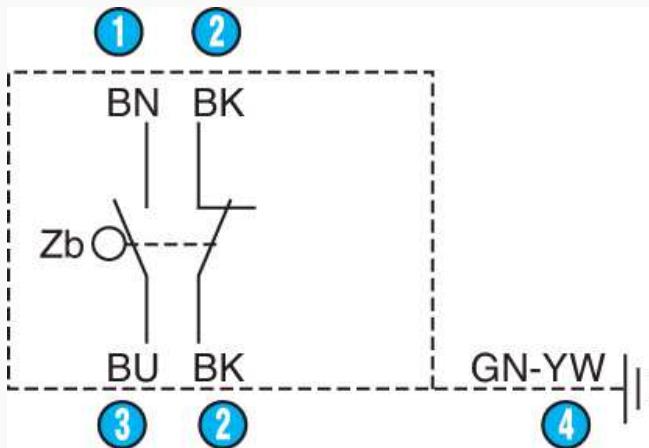
Electrical characteristics

| | |
|--|---|
| Connection | |
| Operating temperature (°C) | -25 → +70 °C |
| Assigned impulse voltage (Ui) - 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 | |
| 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) | 10 |
| Vertical approach speed | 1 mm/min → 0,5 m/s |
| Horizontal approach speed (30° cam) | - |

Principles



Function

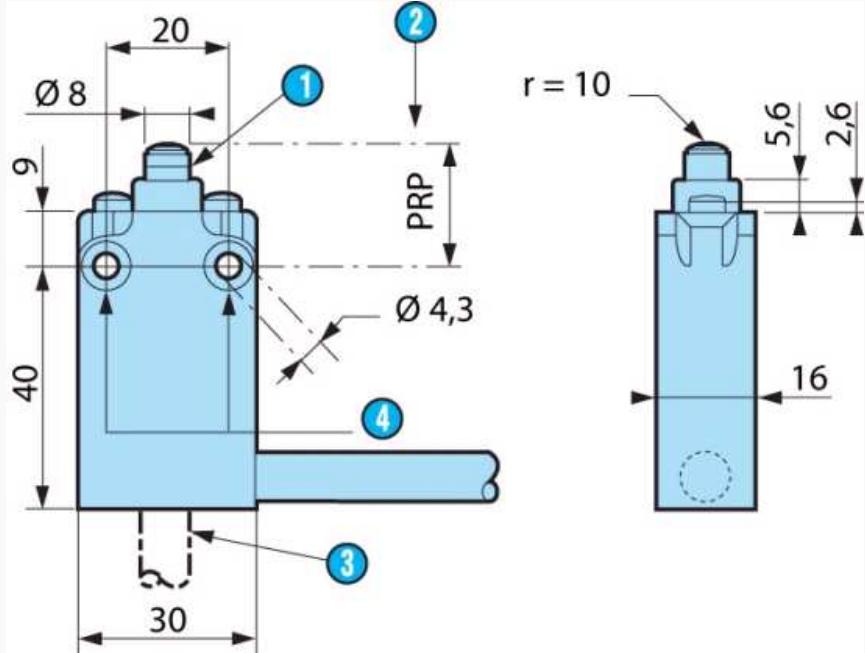
Four-terminal double break two-way contact element (form Zb) with positive opening NC contacts. The 2 moving contacts are electrically isolated from one another.

| Nº | Legend |
|----|--------------|
| 1 | Brown |
| 2 | Black |
| 3 | Blue |
| 4 | Green-yellow |

Dimensions (mm)

Product

83 870 1



83 870 0

| Nº | Legend |
|----|----------------------|
| 1 | POP marking |
| 2 | See sequence diagram |

| | |
|---|----------------------------|
|  | Rear output on request |
|  | Ø 8 x 4.3 - 4 counterbores |

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