## LIMIT SWITCHES - SUBMINIATURE

## 83581

> Very small size for easy integration in tight spaces
) Threaded barrel attachment for precise setting > IP67/IP69 protection
> Operating temperature $-40^{\circ} \mathrm{C}$ up to $+105^{\circ} \mathrm{C}$
> Low operating force
> Ratings from 1 mA 4 V--- to 8 A 250 V~ and 1/4 hp 125-250 V~
, Wire lead or cable output


## Main specifications



## Additional specifications

- Case: PBT GF (UL 94-V0 / GWFI $960^{\circ} \mathrm{C}$ )
- Plunger, Roller: nickel-plated brass
- Barrel, Nuts: nickel-plated brass
- Membrane: fluorosilicone rubber
- Contacts: silver alloy, micro-profile
gold alloy on silver alloy, crossbar (dual-current)
- Wire leads, cable: copper, PVC insulated
- Degree of protection: IP67/IP69
- Recommended actuating speed: $0.01 \mathrm{~mm} / \mathrm{s}$ to $0.5 \mathrm{~m} / \mathrm{s}$
- Max tightening torque: 9 N.m
- Rated insulation voltage Ui : 250 V
- Impulse withstand voltage Uimp: 2.5 kV
- Pollution degree: 3
- Protection against electric shock: Class I (connections D - G - Y); Class II (connection C) (see also «installation recommendations»)
- Conformity / Certifications: $c \mathbf{M}_{\text {us }}$ on request / C $\Theta$ ©CH[


## Product adaptations

, Special cables or wires, special lengths, full wiring with custom connector
> Cable output for $105^{\circ} \mathrm{C}$ operating temperature
> Plunger with ball for lateral approach from any direction
> Plastic plunger for reduced friction, silent operation and/or corrosion resistance
, Longer threaded barrel for increased adjustment range and/or thick panel mounting
> Increased plunger travel
) AgSnO2 contacts for very high inrush currents (lamp and capacitive loads)
> Two-pole/DPDT versions
) cURus approved versions

Principles
Single break snap-action switch

Changeover - SPDT (form C)


Normally closed - SPST-NC (form B)


Normally open - SPST-NO (form A)


## Curves

Operating curve for type 83581
Standard



Making \& breaking capacities IEC/EN 60947-5-1 (6000 cycles)
Dual-current


|  | 83581 <br> Standard |  |  |
| :--- | :--- | :--- | :--- | | 83581 |
| :--- |
| Dual-current |

For other ratings please consult us
(1) Number of cycles
(2) Resistive circuit
(3) Inductive circuit
(4) Mechanical life limit
(5) Current in Amps
** Dual-current models ( 835818 and 835819 ) are designed to operate equally well on low-current ( 1 mA 4 V minimum recommended) or medium-current ( 5 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

## Dimensions

Products
835810/835818

(1) R10 spherical
(2) Nuts 14 across flats Thickness 2

835811 / 835819



8385811 G/90 / 835819 G/90


## Connections

D wire output on right


Wire characteristics:
1: Black (common)
2: Brown (NC)
4: Blue (NO)
Cross section: $1 \mathrm{~mm}^{2}$
Standard length: 0.5 m
Other lengths on request (length in meters: e.g. 1.5)

C cable output on left


Cable characteristics:
1: Black (common) 2: Brown (NC) 4: Grey (NO)
except NC or NO versions: Black - Red
Cross section: $3 \times 0.75$ or $2 \times 0.75 \mathrm{~mm}^{2}$
Standard length: 0.5 m
Other lengths on request (length in meters: e.g. 1.5)

## Installation recommendations

See "Basic technical concepts".
Metal barrel doesn't need to be earthed.

## How to order

Use the 8 digit part numbers when they are defined
Other cases, please precise: Type of microswitch - Function - Connection - Adaptation*

* if needed

Example: 835819 G/90 R Y1.5

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[^0]:    Warning:
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