## LIMIT SWITCHES - LOW PROFILE HOUSING

## 83731/83732/83733

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, Low-profile body for easy integration in tight spaces
, Threaded barrel attachment for precise setting
, Low switching hysteresis (short differential travel) , IP66/P69 protection
Oil-resistant nitrile contact element housing and boot
Operating temperature from \(-40^{\circ} \mathrm{C}\) to \(+70^{\circ} \mathrm{C}\)
Max rating 10 A 250 Vac
Cable output
Long mechanical life
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## Product adaptations

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## 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

$\begin{aligned} \text { (1) } & \text { Number of cycles } \\ 2 & \text { Resistive circuit } \\ 3 & \text { Inductive circuit } \\ \text { 4) } & \text { Mechanical life limit } \\ \text { (5) } & \text { Current in Amps }\end{aligned}$

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

| AC-12 (resistive load) | $10 \mathrm{~A} 24 \mathrm{~V} \sim$ |
| :--- | :--- |
|  | $10 \mathrm{~A} 250 \mathrm{~V} \sim$ |
| AC-15 (electromagnetic load) | $4 \mathrm{~A} 24 \mathrm{~V} \sim$ |
|  | $2.5 \mathrm{~A} 250 \mathrm{~V} \sim$ |
| DC-12 (resistive load) | $10 \mathrm{~A} 24 \mathrm{~V}-\mathrm{-}$ |
| DC-13 (electromagnetic load) | 3 A $24 \mathrm{~V}--$ |

Electrical durability

| AC-15 (electromagnetic load) | 1 A $24 \mathrm{~V} \sim>500000$ cycles |
| :--- | :--- |

For other ratings please consult us

## Dimensions

Products and Connections

83731


## Cable characteristics :

$1(\mathrm{C})=$ black ; $2(\mathrm{NC})=$ brown ; $4(\mathrm{NO})=$ grey H05VV-F $3 \times 0.75 \mathrm{~mm}^{2}$
Outer diameter: max 7.6 mm
Standard lengths: see table, page 1
Other lengths on request (length in meters: e.g. 3.5)


## Installation recommendations

See "Basic technical concepts"
Operation: direct manual operation of "BOM" versions (having live metal internal case) is not permitted above 48 V .
Connection: the 83123 cable is primarily intended for the internal wiring of the equipment in which it is integrated. When this cable emerges from the equipment and becomes accessible, appropriate retention shall be provided. Torsion and/or bending stress must be avoided at cable entry. Any axial pulling force on cable shall not exceed 60 N .
Earthing: when required, one of the two fixing holes must be used as protective earth terminal.

## How to order

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

* if needed

Example: : 83731 C 2.2

## Examples of special adaptations

$\square 83732$ with transverse roller (G/90)

■ 83732 with short barrel for smaller footprint. Total height $=40 \mathrm{~mm}$

83731 with $\varnothing 7$ inox ball plunger for lateral approach from any direction (SP2347 nitrile; SP2315 silicone)

■ 83731 with 10 mm plunger travel, 47 mm total height and unprotected plunger

83731 with flexible spring rod for extra-long overtravel and/or approach from any direction (SP2320)

Long barrel for increased adjustment range, and/or thick panel mounting

## Warning:

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[^0]:    , Special cables or wires, special lengths, full wiring with custom connector ) 83732 with transverse roller (G/90)
    ) 83731 with $\varnothing 7$ inox ball plunger for lateral approach from any direction (SP2347 nitrile; SP2315 silicone)
    > 83731 with flexible spring rod for extra-long overtravel and/or approach from any direction (SP2320)
    > Longer threaded barrel for increased adjustment range and/or thick panel mounting
    > 83731 and 83732 with shorter barrel for even smaller footprint
    ) Increased plunger travel (e.g. 10 mm total travel)
    , Silicone versions for outdoor locations: low temperature $\left(-40^{\circ} \mathrm{C}\right)$ and UV resistant

