

Universal limit switches

→ 8384 standard

→ 8384 with positive break operation

General characteristics

| | |
|--------------------------------|--|
| Conformity to standards | IEC / EN 60947-5-1, including Annex K for version with positive break operation |
| Version | Single-pole |
| Degree of protection IEC 60529 | IP66 |
| Connections | Saddle washer and screw M3.5 |
| Wire max. cross-section | 2 mm ² |
| Electrical protection | Internal earth terminal |
| Cable entry | 3 entries for No. 13 sealing gland, 20.4 Ø, 1.411 pitch (supplied with 2 screw plugs) |

Universal limit switches

→ 8384 standard

- Metal case
- 3 cables entries
- Heads have 4 possible positions at 90°
- All heads protected by nitrile boot and/or ring



Main specifications

| | Steel plunger | Reinforced lever with plastic roller | Stepped adjustment roller lever |
|---|-----------------|--------------------------------------|---------------------------------|
| Housing | | | |
| Metal | | | |
| Action | | | |
| Snap action | | | |
| General characteristics | | | |
| Sequence | | | |
| Snap action | | | |
| | | | |
| Mechanical characteristics | | | |
| Minimum operating force (N) | 10 | 15 | 8 |
| Minimum operating torque (N.m) | - | - | - |
| Minimum total travel force (N) | 22 | 25 | 15 |
| Minimum total travel torque (N.m) | - | - | - |
| Mechanical life (operations) | 10 ⁷ | 10 ⁷ | 10 ⁷ |
| Operating temperature (°C) | -10 → +70 | -10 → +70 | -10 → +70 |
| Weight (g) | 310 | 310 | 310 |
| Comments | | | |
| Accessories for 83 843 0 (see Dimensions - Accessories) | | | |
| Galvanized, passivated steel lever | | | |
| Thermoplastic roller | | | |
| Supplied with nut, washer and locating block loose | | | |

General characteristics

| | |
|--|--|
| Assigned impulse voltage (U _{imp}) V | 4000 |
| Assigned insulation voltage (U _i) V | 500 |
| Thermal current (I _{th}) A | 10 |
| Assigned working characteristics (EN 60 947.5.1) | A300 = AC15 240 V 3 A / 120 V 6 A Alternating current Q150 = DC13 125 V 0.55 A Direct current |

Product adaptations



- -40 °C operating temperature (silicone version)
- Steel roller levers
- UL approval : consult us



| Adjustable roller lever | Adjustable roller lever with idle-return | Rotary head, momentary action to right and left | Steel roller plunger | Flexible metal lever |
|-------------------------|--|---|----------------------|----------------------|
| 83 842 101 | 83 842 201 | 83 843 001 | 83 845 001 | 83 846 001 |
| | | | | |
| 8 | 8 | - | 10 | 1.5 |
| - | - | 0.2 | - | - |
| 15 | 15 | - | 22 | 2.5 |
| - | - | 0.33 | - | - |
| 10 ⁷ | 10 ⁷ | 10 ⁷ | 10 ⁷ | 10 ⁷ |
| -10 → +70 | -10 → +70 | -20 → +70 | -10 → +70 | -10 → +70 |
| 310 | 310 | 310 | 300 | 310 |

Principles

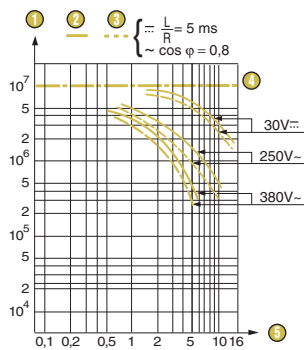
Function

Four-terminal double break two-way contact element (form Za). The contacts must be of the same polarity.



Curves

Operating curve for standard version

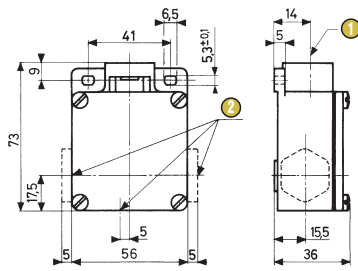


- ① Number of operations
- ② Resistive circuit
- ③ Inductive circuit
- ④ Mechanical life limit
- ⑤ Current in Amps

Dimensions

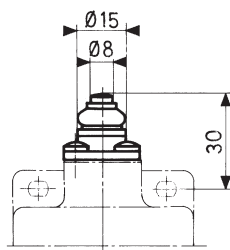
→ Product

Body

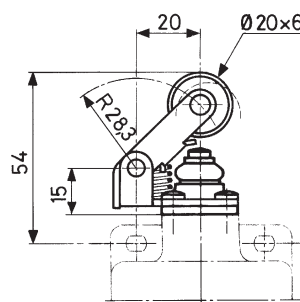


- ① Axis of heads
- ② No. 13 sealing gland

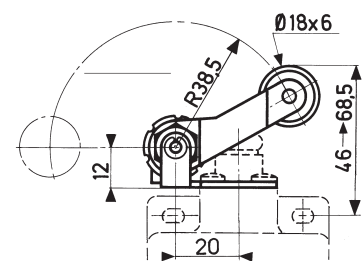
83 840 0



83 841 0

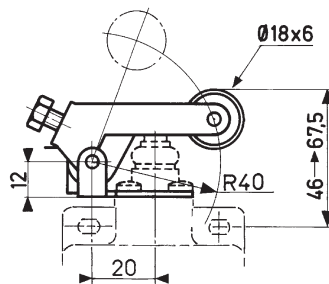


83 842 0

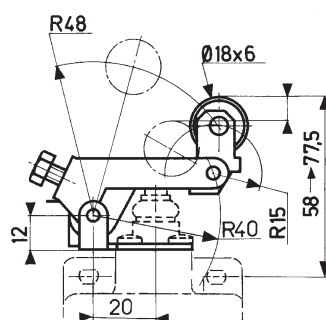


Adjustable in 8° steps

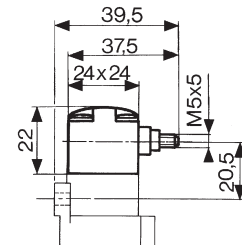
83 842 1



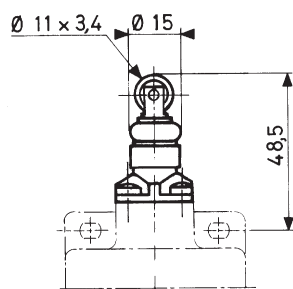
83 842 2



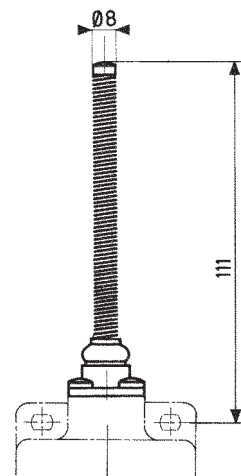
83 843 0



83 845 0

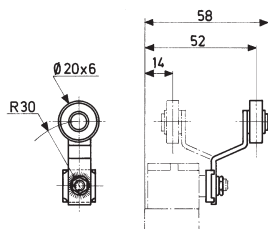


83 846 0

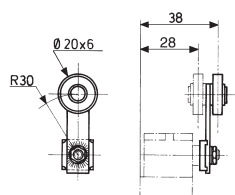


→ Accessories

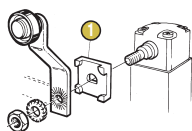
79 210 997 (for 83 843 0)



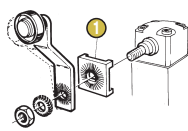
79 210 998 (for 83 843 0)



Lever angular settings



1 Block
Adjustable in 90° steps



1 Block turned
Adjustable in 6° steps

Warning:

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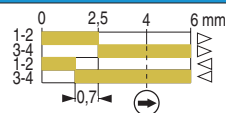
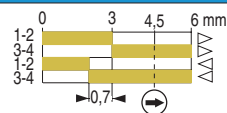
Universal limit switches

→ 8384 with positive break operation

- Metal case
- 3 cables entries
- Heads have 4 possible positions at 90°
- All heads protected by nitrile boot and/or ring



Main specifications

| | | Steel plunger | Reinforced lever with plastic roller |
|---|---------------|--|---|
| | | 83 840 701 | 83 841 701 |
| Housing | Action | | |
| Metal | Snap action | | |
| General characteristics | | | |
| Sequence | | | |
| Snap action | | | |
| | |  |  |
| Mechanical characteristics | | | |
| Minimum operating force (N) | | 10 | 15 |
| Minimum operating torque (N.m) | | - | - |
| Minimum positive opening force (N) | | 10 | 15 |
| Min. positive opening torque (N.m) | | - | - |
| Minimum total travel force (N) | | 22 | 25 |
| Minimum total travel torque (N.m) | | - | - |
| Mechanical life (operations) | | 10 ⁷ | 10 ⁷ |
| Operating temperature (°C) | | -10 → +70 | -10 → +70 |
| Weight (g) | | 310 | 310 |
| Comments | | | |
| Accessories for 83 843 7 (see Dimensions - Accessories) | | | |
| Galvanized, passivated steel lever | | | |
| Thermoplastic roller | | | |
| Supplied with nut, washer and locating block loose | | | |

General characteristics

| | |
|--|--|
| Assigned impulse voltage (Uimp) V | 4000 |
| Assigned insulation voltage (Ui) V | 500 |
| Thermal current (Ith) A | 2.5 |
| Assigned working characteristics (EN 60 947.5.1) | C300 = AC15 240 V 0.75 A / 120 V 1.5 A Alternating current R300 = DC13 250 V 0.11 A / 125 V 0.22 A Direct current |
| Short circuit test | Conforms to IEC 60947.5.1 paragraph 8.34 |
| Current peak | 1000 A at 250 VAC 0.5 < cos φ < 0.7 |
| Short circuit protection device | Fuse 10 AgG |

Product adaptations

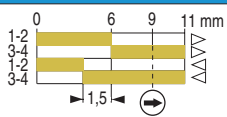


- -40 °C operating temperature (silicone version)
- Steel roller levers
- UL approval : consult us



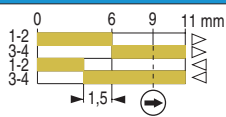
Stepped adjustment roller lever

83 842 701



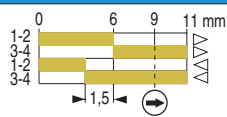
Adjustable roller lever

83 842 801



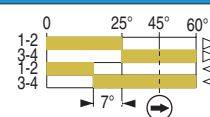
Adjustable roller lever with idle-return

83 842 901



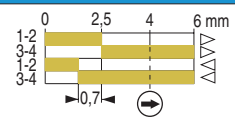
**Rotary head,
momentary action
to right and left**

83 843 701



Steel roller plunger

83 845 701

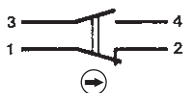


| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 8 | 8 | 8 | - | 10 |
| - | - | - | 0.2 | - |
| 10 | 10 | 10 | - | 10 |
| - | - | - | 0.2 | - |
| 15 | 15 | 15 | - | 22 |
| - | - | - | 0.33 | - |
| 10 ⁷ | 10 ⁷ | 10 ⁷ | 10 ⁷ | 10 ⁷ |
| -10 → +70 | -10 → +70 | -10 → +70 | -20 → +70 | -10 → +70 |
| 310 | 310 | 310 | 310 | 300 |

Principles

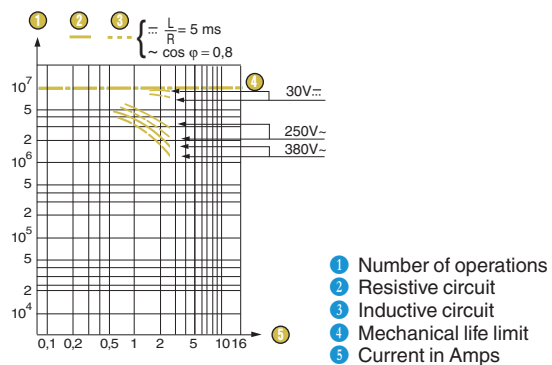
Function

Four-terminal double break two-way contact element (form Za) with positive break operation on NC contacts (1-2) according to IEC/EN60947-5-1 Annex K. The contacts must be of the same polarity.



Curves

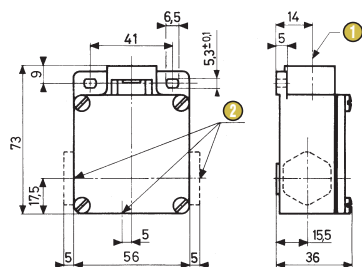
Operating curve for positive break version



Dimensions

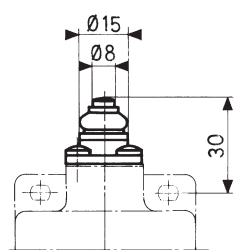
→ Product

Body

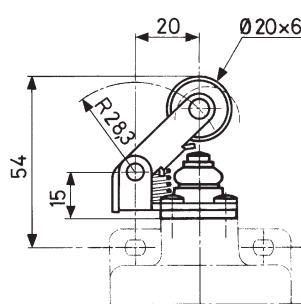


- ① Axis of heads
- ② No. 13 sealing gland

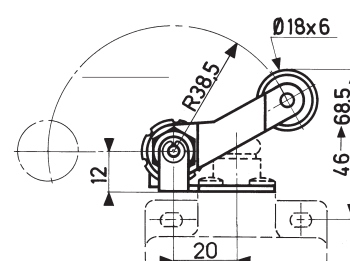
83 840 7



83 841 7

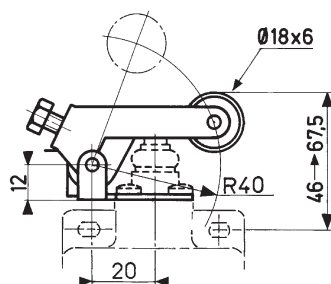


83 842 7

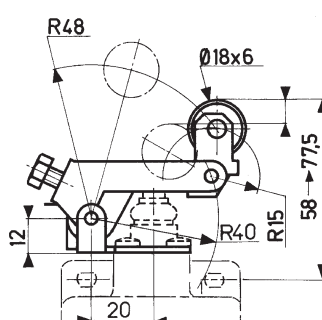


Adjustable in 8° steps

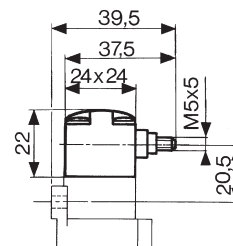
83 842 8



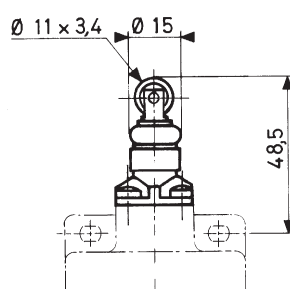
83 842 9



83 843 7

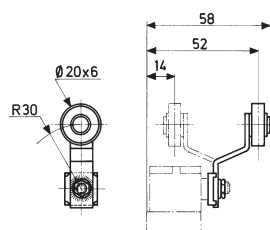


83 845 7

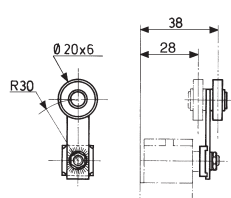


→ Accessories

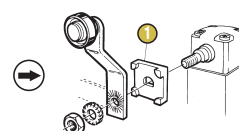
79 210 997 (for 83 843 7)



79 210 998 (for 83 843 7)



Lever angular settings



- ① Block
- Adjustable in 90° steps
Block 1 must not be mounted the other way round

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