

## 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 <sup>2</sup>                                                                        |
| Electrical protection          | Internal earth terminal                                                                  |
| Cable entry                    | 3 entries for No. 13 sealing gland, 20.4 Ø, 1.411 pitch<br>(supplied with 2 screw plugs) |

# Universal limit switches

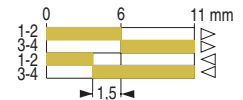
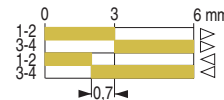
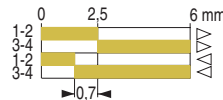
## → 8384 standard

- 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 |
|---------------------------------------------------------|-----------------|--------------------------------------|---------------------------------|
| <b>Housing</b>                                          |                 |                                      |                                 |
| Metal                                                   |                 |                                      |                                 |
| <b>Action</b>                                           |                 |                                      |                                 |
| Snap action                                             |                 |                                      |                                 |
| <b>General characteristics</b>                          |                 |                                      |                                 |
| Sequence                                                |                 |                                      |                                 |
| Snap action                                             |                 |                                      |                                 |
| <b>Mechanical characteristics</b>                       |                 |                                      |                                 |
| 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 <sup>7</sup> | 10 <sup>7</sup>                      | 10 <sup>7</sup>                 |
| Operating temperature (°C)                              | -10 → +70       | -10 → +70                            | -10 → +70                       |
| Weight (g)                                              | 310             | 310                                  | 310                             |
| <b>Comments</b>                                         |                 |                                      |                                 |
| 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 <sub>imp</sub> ) V   | 4000                                                                                             |
| Assigned insulation voltage (U <sub>i</sub> ) V  | 500                                                                                              |
| Thermal current (I <sub>th</sub> ) A             | 10                                                                                               |
| Assigned working characteristics (EN 60 947.5.1) | A300 = AC15 240 V 3 A / 120 V 6 A Alternating current<br>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 |
|-------------------------|------------------------------------------|-------------------------------------------------|----------------------|----------------------|
| <b>83 842 101</b>       | <b>83 842 201</b>                        | <b>83 843 001</b>                               | <b>83 845 001</b>    | <b>83 846 001</b>    |
|                         |                                          |                                                 |                      |                      |
| 8                       | 8                                        | -                                               | 10                   | 1.5                  |
| -                       | -                                        | 0.2                                             | -                    | -                    |
| 15                      | 15                                       | -                                               | 22                   | 2.5                  |
| -                       | -                                        | 0.33                                            | -                    | -                    |
| 10 <sup>7</sup>         | 10 <sup>7</sup>                          | 10 <sup>7</sup>                                 | 10 <sup>7</sup>      | 10 <sup>7</sup>      |
| -10 → +70               | -10 → +70                                | -20 → +70                                       | -10 → +70            | -10 → +70            |
| 310                     | 310                                      | 310                                             | 300                  | 310                  |

## Principles

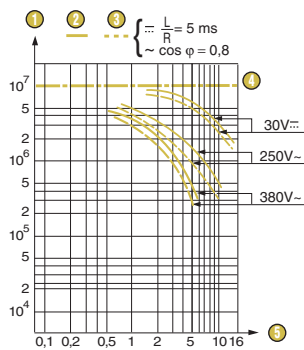
### Function

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



## Curves

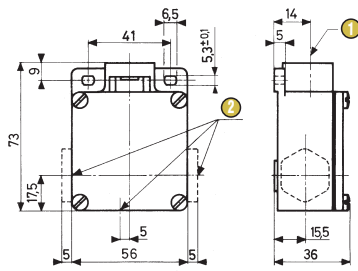
### Operating curve for standard version



## Dimensions

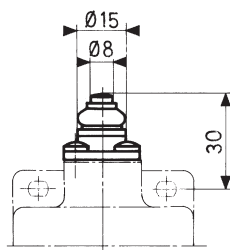
### → Product

#### Body

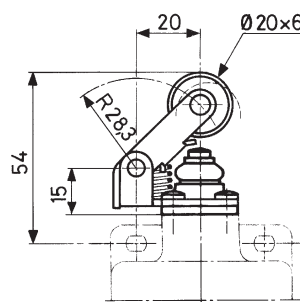


- ① Axis of heads
- ② No. 13 sealing gland

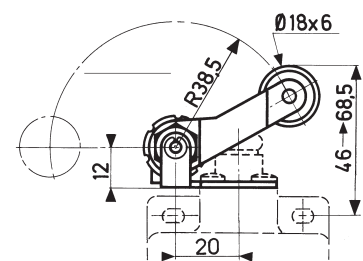
83 840 0



83 841 0

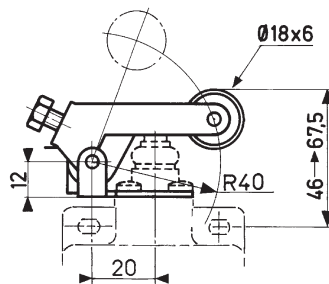


83 842 0

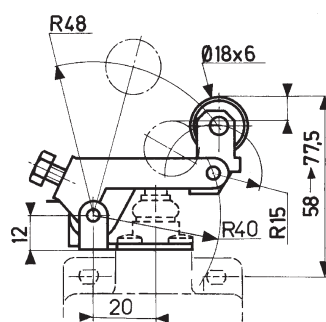


Adjustable in 8° steps

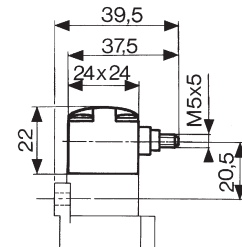
83 842 1



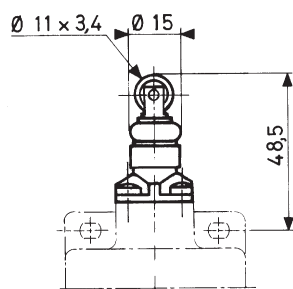
83 842 2



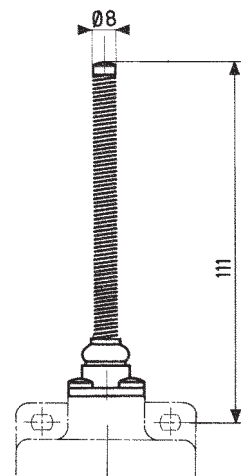
83 843 0



83 845 0

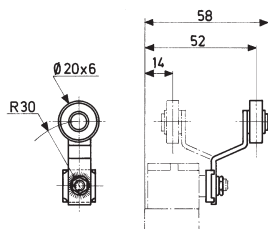


83 846 0

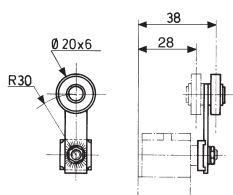


### → Accessories

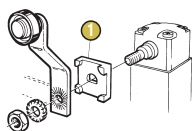
79 210 997 (for 83 843 0)



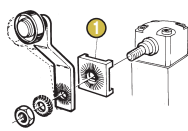
79 210 998 (for 83 843 0)



### Lever angular settings



1 Block  
Adjustable in 90° steps



1 Block turned  
Adjustable in 6° steps

### Warning:

The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet Automatismes SAS and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

# 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                           |
| <b>Housing</b>                                          | <b>Action</b> |                 |                                      |
| Metal                                                   | Snap action   |                 |                                      |
| <b>General characteristics</b>                          |               |                 |                                      |
| Sequence                                                |               |                 |                                      |
| Snap action                                             |               |                 |                                      |
|                                                         |               |                 |                                      |
| <b>Mechanical characteristics</b>                       |               |                 |                                      |
| 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 <sup>7</sup> | 10 <sup>7</sup>                      |
| Operating temperature (°C)                              |               | -10 → +70       | -10 → +70                            |
| Weight (g)                                              |               | 310             | 310                                  |
| <b>Comments</b>                                         |               |                 |                                      |
| 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<br>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

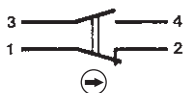


| Stepped adjustment roller lever | Adjustable roller lever | Adjustable roller lever with idle-return | Rotary head, momentary action to right and left | Steel roller plunger |
|---------------------------------|-------------------------|------------------------------------------|-------------------------------------------------|----------------------|
| 83 842 701                      | 83 842 801              | 83 842 901                               | 83 843 701                                      | 83 845 701           |
|                                 |                         |                                          |                                                 |                      |
| 8                               | 8                       | 8                                        | -                                               | 10                   |
| -                               | -                       | -                                        | 0.2                                             | -                    |
| 10                              | 10                      | 10                                       | -                                               | 10                   |
| -                               | -                       | -                                        | 0.2                                             | -                    |
| 15                              | 15                      | 15                                       | -                                               | 22                   |
| -                               | -                       | -                                        | 0.33                                            | -                    |
| 10 <sup>7</sup>                 | 10 <sup>7</sup>         | 10 <sup>7</sup>                          | 10 <sup>7</sup>                                 | 10 <sup>7</sup>      |
| -10 → +70                       | -10 → +70               | -10 → +70                                | -20 → +70                                       | -10 → +70            |
| 310                             | 310                     | 310                                      | 310                                             | 300                  |

## Principles

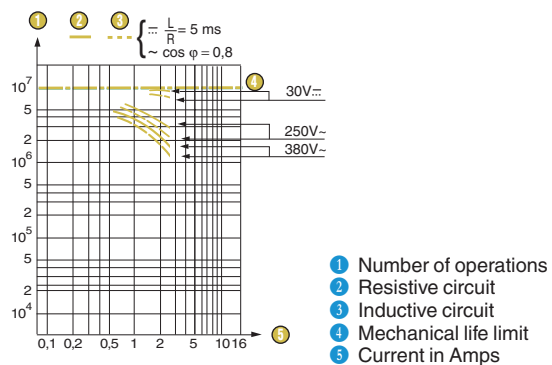
### Function

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

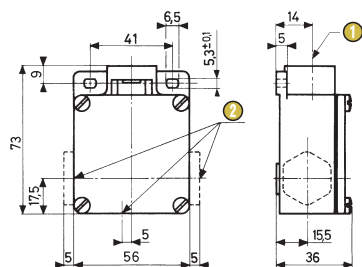
### Operating curve for positive break version



## Dimensions

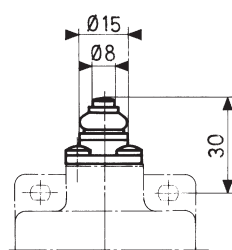
### → Product

#### Body

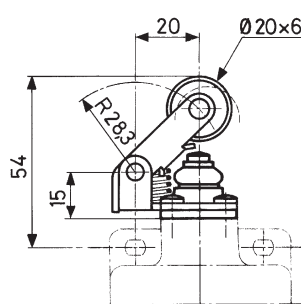


- ① Axis of heads  
② No. 13 sealing gland

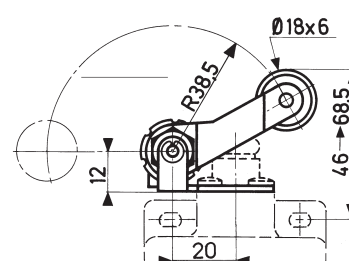
83 840 7



83 841 7

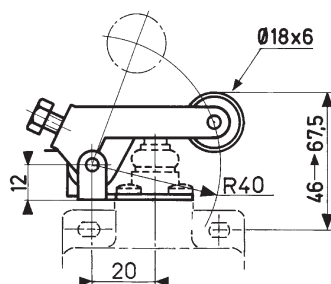


83 842 7

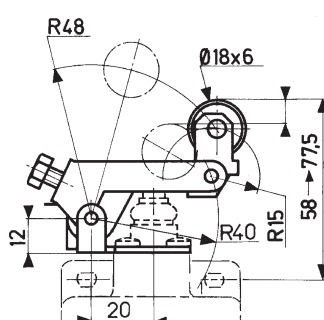


Adjustable in 8° steps

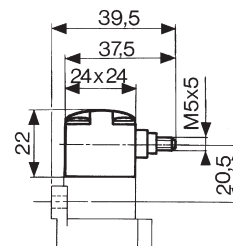
83 842 8



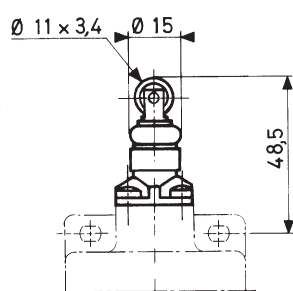
83 842 9



83 843 7

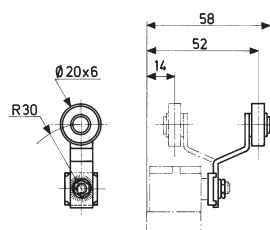


83 845 7

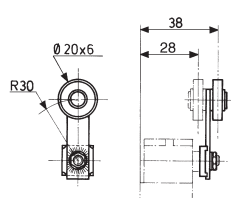


### → Accessories

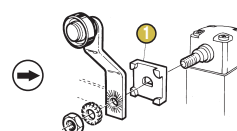
79 210 997 (for 83 843 7)



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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