

# Universal limit switches

## → Series 83 840 0 Standard

- Adjustable metal head
- 4 positions 90°
- Metal case



### Main specifications

	Steel plunger	Reinforced lever with plastic roller	Stepped adjustment roller lever
<b>Housing</b>			
<b>Action</b>			
Metal	Snap action		
<b>General characteristics</b>	<b>83 840 0</b>	<b>83 841 0</b>	<b>83 842 0</b>
<b>Function</b>	NO+NC	NO+NC	NO+NC
<b>Sequence</b>			
<b>Mechanical characteristics</b>			
Minimum operating force (N)	10	15	8
Minimum operating force (cmN)	-	-	-
Minimum total travel force (N)	22	25	15
Minimum total travel force (cmN)	-	-	-
Mechanical life (operations)	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Temperature limits use (°C)	-10 → +70	-10 → +70	-10 → +70
Weight (g)	310	310	310
<b>Comments</b>	Accessories for 83 843 0 (see Dimensions - Mounting accessories) Galvanized, passivated steel lever Thermoplastic roller Supplied with nut, washer and locating block loose		

### General characteristics

Assigned insulation voltage (Ui) V	600
Thermal current (Ith) A	10
Use category	AC 15 : A600 DC 13 : P300

### Product adaptations



- Approvals : UL/CSA



Adjustable roller lever	Adjustable lever with idle-return lever	Rotary head with momentary action Action to right and left	Top-mounted plunger with metal roller	Flexible metal lever
<b>83 842 1</b>	<b>83 842 2</b>	<b>83 843 0</b>	<b>83 845 0</b>	<b>83 846 0</b>
NO+NC	NO+NC	NO+NC	NO+NC	NO+NC
8	8	-	10	1.5
-	-	20	-	-
15	15	-	22	2.5
-	-	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

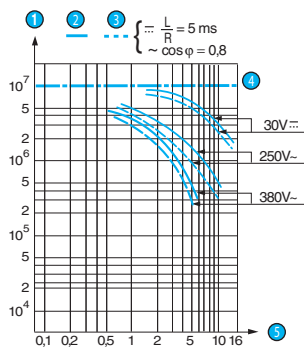
### Function

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



## Curves

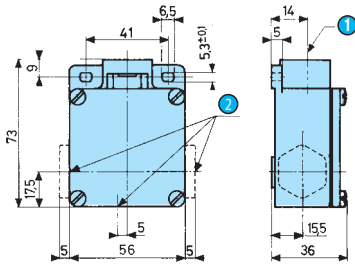
### Operating curve for standard version



## Dimensions

### → Product

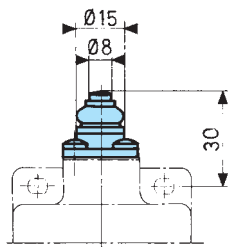
#### Body



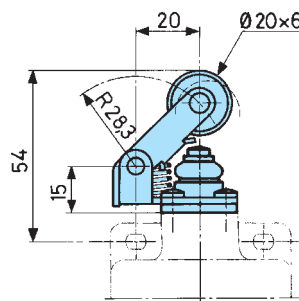
- 1 Axis of head rotation
- 2 No. 13 sealing gland

### → Actuators

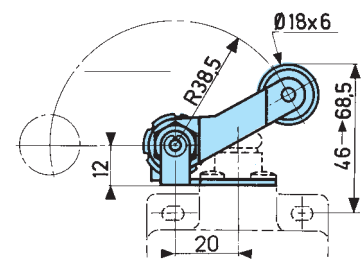
83 840 0



83 841 0

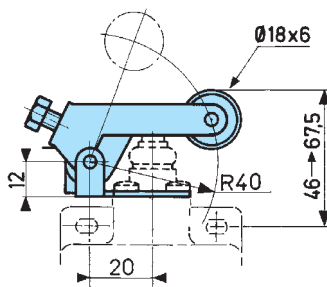


83 842 0

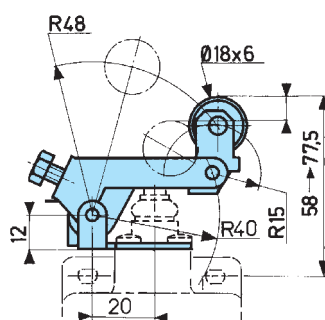


Min. angle between 2 successive adjustments  $0^\circ 10'$

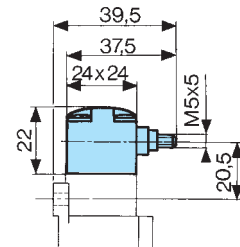
83 842 1



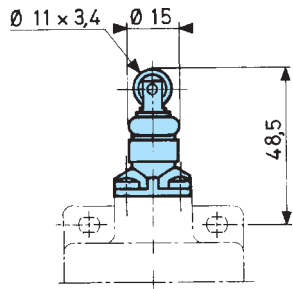
83 842 2



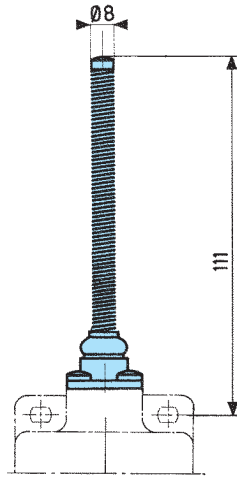
83 843 0



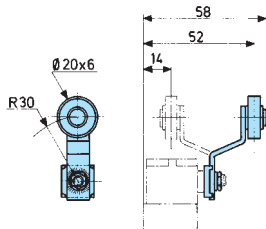
83 845 0



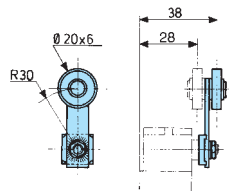
83 846 0



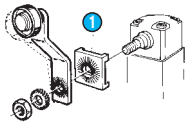
79 210 997 (for 83 843 0)



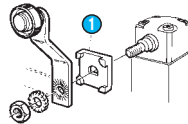
79 210 998 (for 83 843 0)



Lever settings or positions dictated by direction in which block 1 is fitted



1 Block 1  
Adjustable in 6° steps



1 Block 1  
Adjustable in 90° steps

# Universal limit switches

## → Series 83 840 7 Positive break operation

- Adjustable metal head
- 4 positions 90°
- Plastic or metal cases



### Main specifications

	Steel plunger	Reinforced lever with plastic roller
<b>Housing</b>		
Metal	83 840 7	83 841 7
<b>Action</b>		
Snap action		
<b>General characteristics</b>		
Function	NC	NC
Sequence	0 2,5 4F 6 mm	0 3 4,5F 6 mm
Snap action	1-2 1-2 0,7	1-2 1-2 0,7
Positive break operation		
<b>Mechanical characteristics</b>		
Minimum operating force (N)	10	15
Minimum operating force (cmN)	-	-
Minimum positive opening force (N)	10	15
Min. positive opening travel (cmN)	-	-
Minimum total travel force (N)	22	25
Minimum total travel force (cmN)	-	-
Mechanical life (operations)	10 <sup>7</sup>	10 <sup>7</sup>
Temperature limits use (°C)	-10 → +70	-10 → +70
Weight (g)	310	310

### General characteristics

Assigned insulation voltage (Ui) V	600
Thermal current (Ith) A	2.5
Use category	AC 15 : C600 DC 13 : R 300
Short circuit test	Conforms to IEC 947.5.1 paragraph 8.34
Current peak	1000 A at 250 VAC 0.5 < cos φ < 0.7
Short circuit protection (SCPD)	Fuse 10 AgF

### Product adaptations



- Approvals : UL/CSA



### Stepped adjustment roller lever

### Adjustable roller lever

### Adjustable lever with idle-return lever

### Rotary head with momentary action Action to right and left

### Top-mounted plunger with metal roller

83 842 7

83 842 8

83 842 9

83 843 7

83 845 7

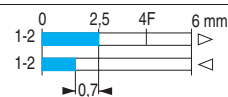
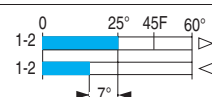
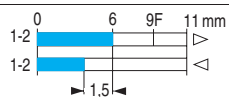
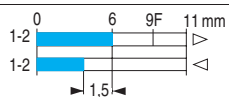
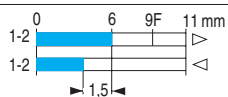
NC

NC

NC

NC

NC



8	8	8	-	10
-	-	-	20	-
10	10	10	-	10
-	-	-	20	-
15	15	15	-	22
-	-	-	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

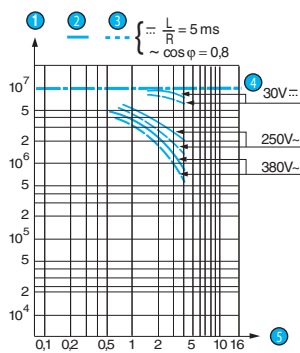
### Function

Two-terminal double break contact element (form Y : normally closed contact) with positive break operation.



## Curves

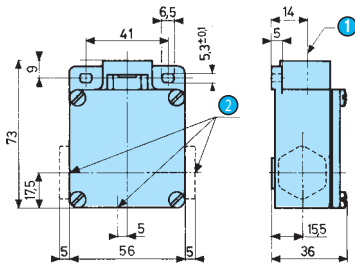
### Operating curve for positive break version



## Dimensions

### → Product

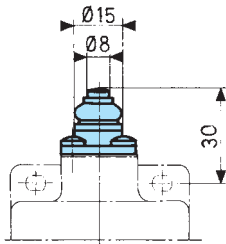
#### Body



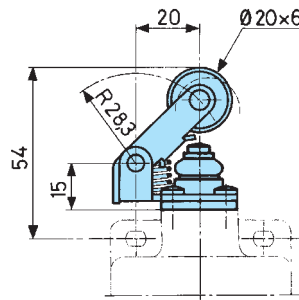
- 1 Axis of head rotation
- 2 No. 13 sealing gland

### → Actuators

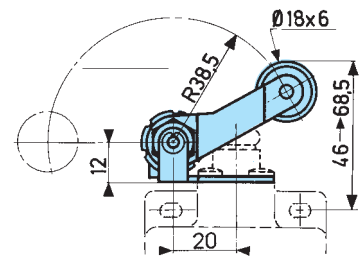
83 840 7



83 841 7

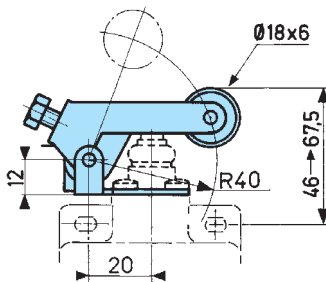


83 842 7

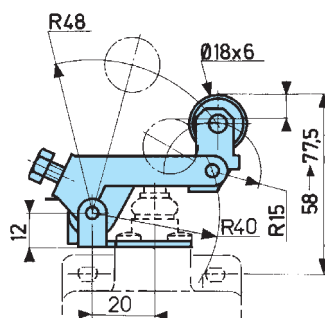


- 1 Min. angle between 2 successive adjustments  
0°10

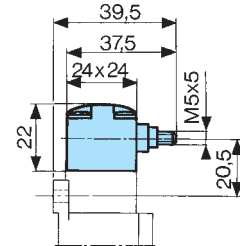
83 842 8



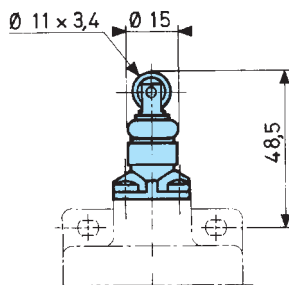
83 842 9



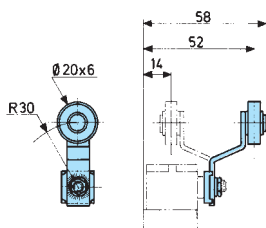
83 843 7



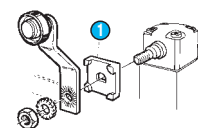
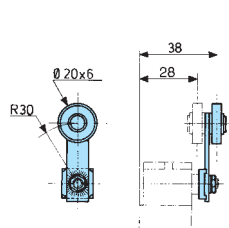
83 845 7



79 210 997 (for 83 843 7)



79 210 998 (for 83 843 7)



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