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)

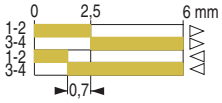
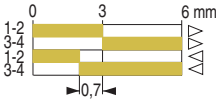
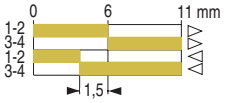
Universal limit switches

➜ 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

Housing	Action	Steel plunger	Reinforced lever with plastic roller	Stepped adjustment roller lever
Metal	Snap action	**83 840 001**	**83 841 001**	**83 842 001**
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

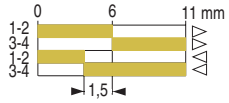
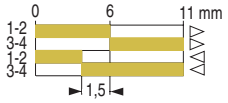
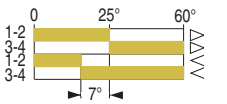
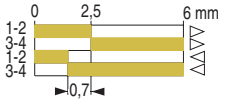
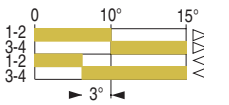
Assigned impulse voltage (Uimp) V	4000
Assigned insulation voltage (Ui) V	500
Thermal current (Ith) A	10
Assigned working characteristics (EN 60 947.5.1)	A300 = AC15 240 V 3 A / 120 V 6 A Alternating current Q150 = DC13 125 V 0.55 A Direct current

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

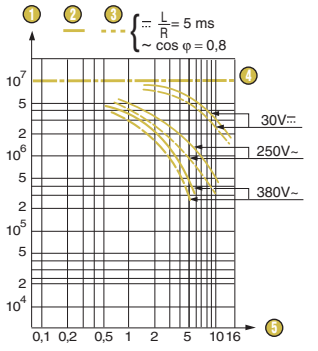
Principles

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

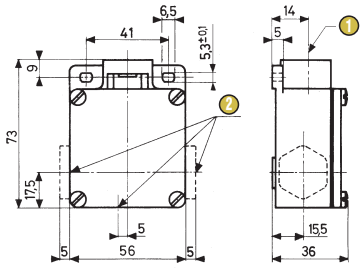


1. Number of operations
2. Resistive circuit
3. Inductive circuit
4. Mechanical life limit
5. Current in Amps

Dimensions

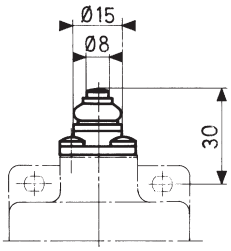
➜ Product

Body

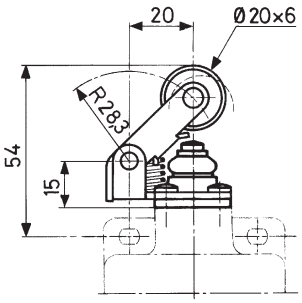


1 Axis of heads
2 No. 13 sealing gland

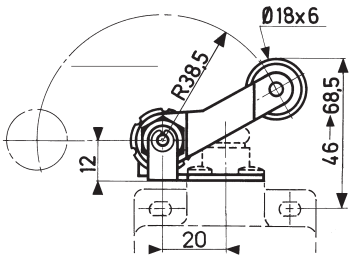
83 840 0



83 841 0

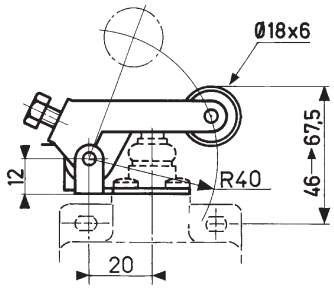


83 842 0

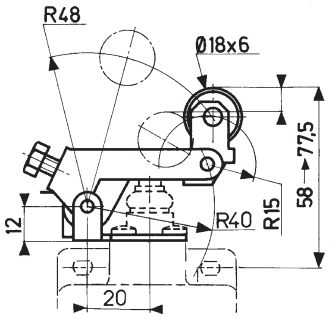


Adjustable in 8° steps

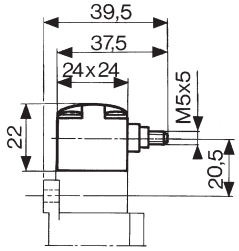
83 842 1



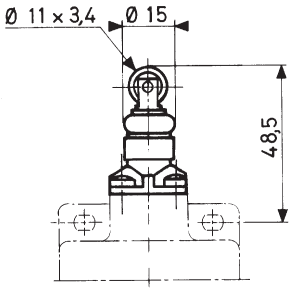
83 842 2



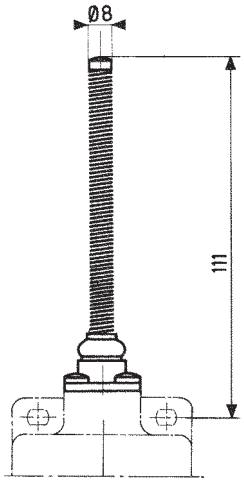
83 843 0



83 845 0

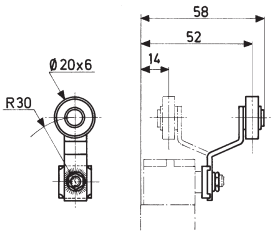


83 846 0

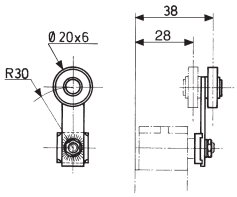


➜ Accessories

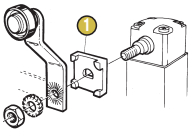
79 210 997 (for 83 843 0)



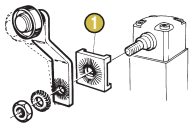
79 210 998 (for 83 843 0)



Lever angular settings



1 Block
Adjustable in 90° steps



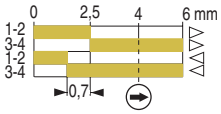
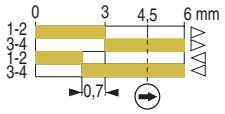
1 Block turned
Adjustable in 6° steps

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
Housing	**Action**		
Metal	Snap action	**83 840 701**	**83 841 701**
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

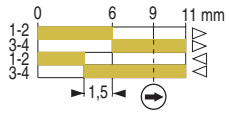
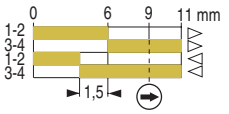
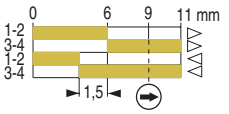
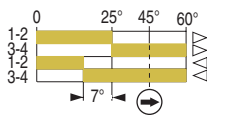
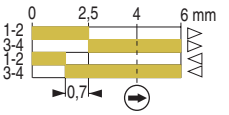
Assigned impulse voltage (Uimp) V	4000
Assigned insulation voltage (Ui) V	500
Thermal current (Ith) A	2.5
Assigned working characteristics (EN 60 947.5.1)	C300 = AC15 240 V 0.75 A / 120 V 1.5 A Alternating current R300 = DC13 250 V 0.11 A / 125 V 0.22 A Direct current
Short circuit test	Conforms to IEC 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**

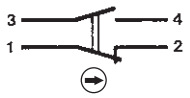




Stepped adjustment roller lever	Adjustable roller lever	Adjustable roller lever with idle-return	Rotary head, momentary action to right and left	Steel roller plunger
83 842 701	**83 842 801**	**83 842 901**	**83 843 701**	**83 845 701**
				
8	8	8	-	10
-	-	-	0.2	-
10	10	10	-	10
-	-	-	0.2	-
15	15	15	-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

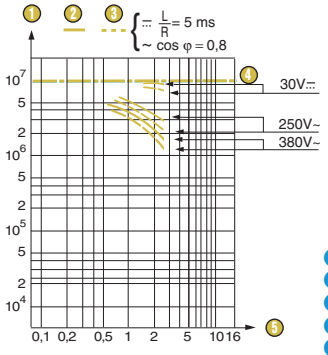
Principles

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

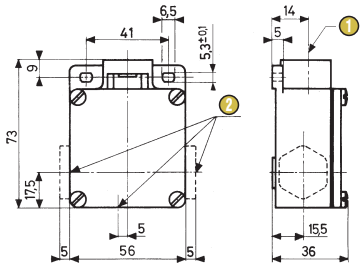


1. Number of operations
2. Resistive circuit
3. Inductive circuit
4. Mechanical life limit
5. Current in Amps

Dimensions

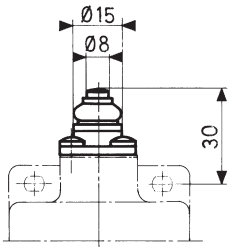
➜ Product

Body

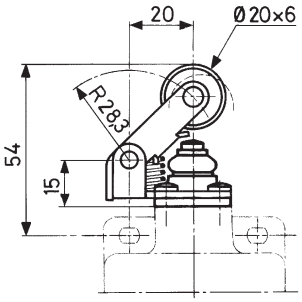


1 Axis of heads
2 No. 13 sealing gland

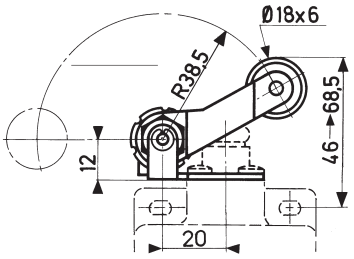
83 840 7



83 841 7

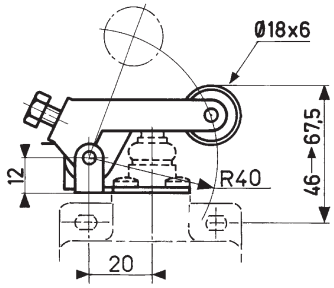


83 842 7

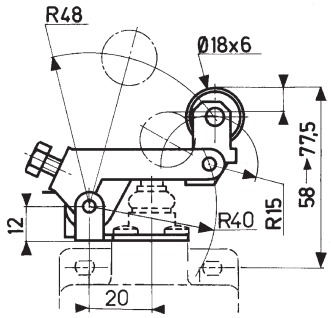


Adjustable in 8° steps

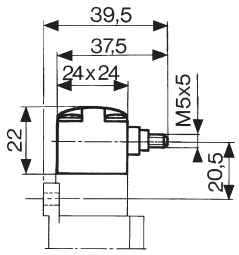
83 842 8



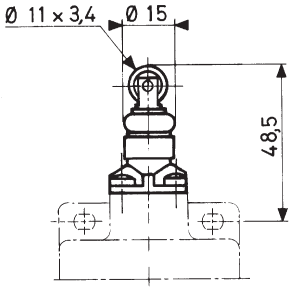
83 842 9



83 843 7

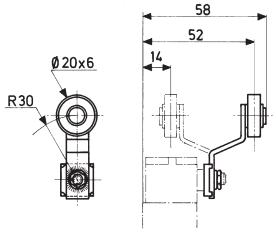


83 845 7

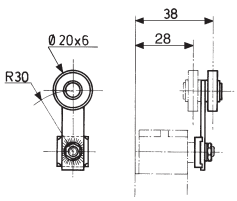


➜ Accessories

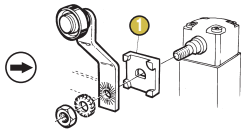
79 210 997 (for 83 843 7)



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