

Limit switch to standard EN 50041

- Series 83 861 with plunger/roller plunger
- Series 83 861 with roller lever
- Series 83 861 with adjustable roller lever
- Series 83 861 with special levers
- Series 83 863 cable-operated with manual reset

Conformity to standards	
Conformity to standards	EN 5041, IEC 947-5-1, VDE 0660/200, UL 508, CSA C22.2 No. 14, IEC 536-1, EN 60204-1, NFC 20030 class I
Protection	IP66
Electrical characteristics	
Assigned insulation voltage (Ui) V	500
Thermal current (Ith) A	10
Use category	A300 - Q300 AC15=6 A/250 V - 1.9 A/380 V DC13=3 A/24 V
Short circuit test IEC 947.5.1	
Current peak	1000 A at 250 VAC $0.5 < \cos \varphi < 0.7$
Short circuit protection (SCPD)	fuse 10 A gF
Electrical protection by internal earth terminal	•
Connections	
Saddle washer and screw	M 3.5
Max. wire cross-section	2 x 1.5 mm ² / 1 x 2.5 mm ²
Connection	with sealing gland PG13
Approvals	UL listed A300 - Q300 - CSA A300

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→ Series 83 861 with plunger/roller plunger

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



Main specifications

	Steel plunger	Plunger with steel roller	Plunger + lever with vertical plastic roller	Plunger + lever with lateral plastic roller
Housing				
Metal	Snap action			
Metal	Dependent			
General characteristics				
Special option - configuration EN 50041	B	C	-	-
Function	NC + NO	NC + NO	NC + NO	NC + NO
Sequence				
Snap action				
Sequence				
Dependent action				
Positive break operation				
Minimum operating force (N)	10	10	9	9
Minimum total travel force (N)	12	12	10	10
Min. positive opening travel (N)	25	25	20	20
Temperature limits use (°C)	-25 → +80	-25 → +80	-25 → +80	-25 → +80
Temperature limits stored (°C)	-40 → +80	-40 → +80	-40 → +80	-40 → +80
Protection rating	IP 66	IP 66	IP 66	IP 66
Weight (plastic/metal) (g)	215/340	215/350	215/360	215/365

Product adaptations



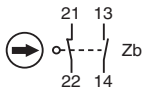
- Operating sequence
- Number of circuits
- Type of function
- Direction of head
- Connection via ISO sealing gland
- Special marking
- Pre-wiring option

Principles

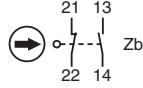
Function

Four-terminal double break two-way contact element (form Zb) with positive opening NC contacts. The 2 moving contacts are electrically isolated from one another.

Snap action contact 1 NO + 1 NC



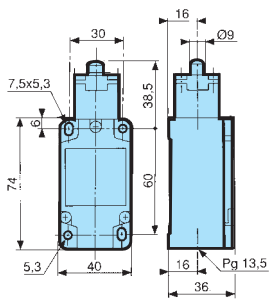
Dependent action contact 1 NO + 1 NC



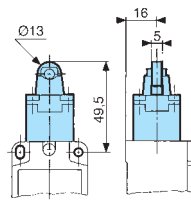
Dimensions

→ Product

83 861 001 / 011



83 861 501 / 511



83 861 101 / 111 / 201 / 211

