CROUZET.COM 11 LIMIT SWITCHES 12/2023

LIMIT SWITCHES - SUBMINIATURE

83581

- > Very small size for easy integration in tight spaces
- > Threaded barrel attachment for precise setting
- > IP67/IP69 protection
- > Operating temperature -40 °C up to +105 °C
-) Low operating force
-) Ratings from 1 mA 4 V... to 8 A 250 V \sim and 1/4 hp 125-250 V \sim
- > Wire lead or cable output





Main specifications						
			Plunger 835810	Roller plunger 835811	Transverse roller plunger 835811 G/90	
Туре	Function	Connections			_	
Standard	(changeover)	D0.5 (wires, right)	83581001	83581101	83581102	
Standard	(changeover)	G0.5 (wires, left)	•	•	•	
Standard	(changeover)	C0.5 (cable, left)	83581003	83581109	83581108	
Standard	(changeover)	Y0.5 (cable, right)	•	•	•	
Standard	I-R-C	D-G-C-Y*	•	•	•	
Dual-current	I-R-C	D-G-C-Y*	• (835818)	• (835819)	• (835819 G/90)	
* wire length or cable Electrical character	ristics					
Operational current / 250 VAC - Standard (le) A			8	_ 8	8	
Operational current / 250 VAC - Dual-current (le) A			_ 5 **	5 **	5 **	
Thermal current - Standard (Ith) A			_10	10	10	
Thermal current - Dual-current (Ith) A			6	6	6	
Mechanical characteristics						
Max. Operating force (N)			5	5	5	
Max. Total travel force (N)			16	12	12	
Max. Allowable overtravel force (N)			25	25	25	
Max. Pretravel (mm)			2	2	_ 2	
Total travel (mm)			6	4	4	
Max. Differential travel (mm)			0.8	0.8	0.8	
Min. Overtravel (mm)			4	2.5	2.5	
Ambient operating temperature, wires (°C)			-40 → +105	-40 → +105	-40 → +105	
Ambient operating temperature, cable (°C)			-40 → +90	40 → +90		
Mechanical life (operations)			105			
Weight (g)			40	45	45	

Additional specifications

- Case: PBT GF (UL 94-V0 / GWFI 960 °C)
- Plunger, Roller: nickel-plated brass
- Barrel, Nuts: nickel-plated brass - Membrane: fluorosilicone rubber
- Contacts: silver alloy, micro-profile
 - gold alloy on silver alloy, crossbar (dual-current)
- Wire leads, cable: copper, PVC insulated

- Degree of protection: IP67/IP69
- Recommended actuating speed: 0.01 mm/s to 0.5 m/s
- Max tightening torque: 9 N.m
- Rated insulation voltage Ui: 250 V
- Impulse withstand voltage Uimp: 2.5 kV
- Pollution degree: 3
- Protection against electric shock: Class I (connections D G Y); Class II (connection C) (see also «installation recommendations»)
- Conformity / Certifications: c Sus on request / C € (ENI

Product adaptations



- > Special cables or wires, special lengths, full wiring with custom connector
- > Cable output for 105 °C operating temperature
- > Plunger with ball for lateral approach from any direction
- > Plastic plunger for reduced friction, silent operation and/or corrosion resistance
- > Longer threaded barrel for increased adjustment range and/or thick panel mounting
- > Increased plunger travel
- > AgSnO2 contacts for very high inrush currents (lamp and capacitive loads)
- > Two-pole/DPDT versions
- > cURus approved versions

Standard product

Product made to order



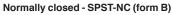
Contact us

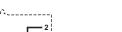
Principles

Single break snap-action switch

Changeover - SPDT (form C)





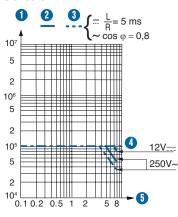


Normally open - SPST-NO (form A)

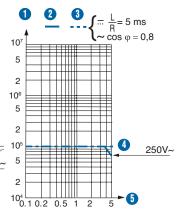


Curves

Operating curve for type 83581 Standard



Operating curve for 83581 Dual-current



835811/835819

Making & breaking capacities IEC/EN 60947-5-1 (6000 cycles)

	83581 Standard	83581 Dual-current
AC-12 (resistive load)	8 A 24 V∼	5 A 24 V∼
	8 A 250 V∼	5 A 250 V \sim
AC-15 (electromagnetic load)	4 A 24 V∼	4 A 24 V \sim
	2.5 A 250 V∼	2.5 A 250 V \sim
DC-12 (resistive load)	8 A 24 V	5 A 24 V
DC-13 (electromagnetic load)	2 A 24 V	2 A 24 V

8385811 G/90 / 835819 G/90

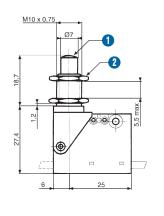
For other ratings please consult us

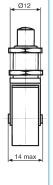
- Number of cycles
- Resistive circuit
- Inductive circuit
- Mechanical life limit
- 6 Current in Amps

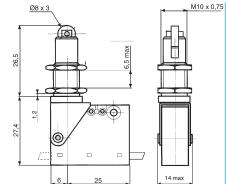
Dimensions

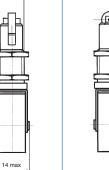
Products

835810/835818









1 R10 spherical

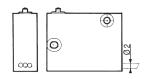
2 Nuts 14 across flats Thickness 2

^{**} Dual-current models (835818 and 835819) are designed to operate equally well on low-current (1 mA 4 V minimum recommended) or medium-current (5 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

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Connections

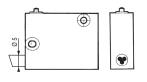
D wire output on right



(0)

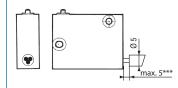
G wire output on left

C cable output on left



Y cable output on right

***Outer jacket stripping



Cable characteristics:

1: Black (common) 2: Brown (NC) 4: Grey (NO) except NC or NO versions: Black - Red

Cross section: 3 x 0.75 or 2 x 0.75 mm²

Standard length: 0.5 m

Other lengths on request (length in meters: e.g. 1.5)

Wire characteristics:

1: Black (common)

2: Brown (NC) 4: Blue (NO)

Cross section: 1 mm² Standard length: 0.5 m

Other lengths on request (length in meters: e.g. 1.5)

Installation recommendations

See "Basic technical concepts".

Metal barrel doesn't need to be earthed.

How to order

Use the 8 digit part numbers when they are defined

Other cases, please precise: Type of microswitch - Function - Connection - Adaptation*

* if needed

Example: 835819 G/90 R Y1.5



Model with short barrel and two Ø3 fixing holes for even smaller footprint (SP4978)