

# Limit switch for severe environments

## → Series 83 589

- Press button protected by O-ring and scraper seal



### Main specifications

Housing		Features	Top-mounted plunger	
Thermoplastic		Standard	83 589 031	
Thermoplastic		Dual-current	83 589 801	
Mechanical characteristics				
Minimum operating force (N)			10	
Minimum total travel force (N)			15	
Minimum operating travel (mm)			2	
Differential travel (mm)			0.1	
Maximum total travel (mm)			4.5	
Mechanical life (millions of operations) mini.			10 <sup>7</sup>	
Operating temperature (°C)			-40 → +85	
Protection rating			IP66/67	
Weight (g)			80	

### General characteristics

Conformity to standards	NFC 20030 class I (the plunger is operated manually by an earthed metal part, or by an insulated part which provides additional insulation).
Version	Single-pole
Protection	IP66 resistant to hydrocarbons and saline mist (400 hours)

### Electrical characteristics

Electrical endurance	Standard : 8 A 250 VAC : 30.000 operations 200 mA 24 V DC relay load L / R = 3 ms 10 <sup>7</sup> operations Dual-current : 1 mA 4 VAC : 10 <sup>7</sup> operations 200 mA 24 V DC relay load L / R = 3 ms 5 x 10 <sup>6</sup> operations 5 A 250 VAC : 30.000 operations
Dual-current	This version is designed to operate both on dual-current (1 mA 4 V minimum) and medium-current (5A) circuits. However, a given product should only be used to switch one type of circuit during its working life.

### Connections

Cable	PVC Ø5 - 3 x 0.75 mm <sup>2</sup> Length 0.50 m Conforming to NFR 13414/13415
Mounting	Max. tightening torque 9 Nm

### Principles

#### Function

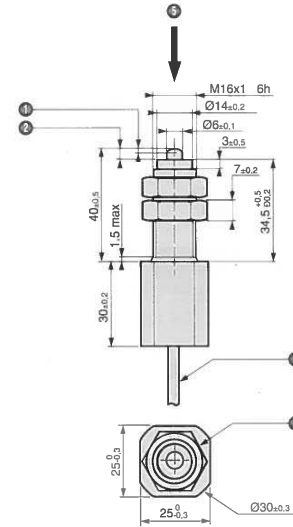
Single break two-way contact element (form C : changeover)



- ① Black (common)
- ② Grey (NC)
- ④ Blue (NO)

### Dimensions

#### → Product



- ① Operating travel
- ② Total travel
- ③ Cable Ø5 - 3 x 0.75 mm<sup>2</sup>  
Length 0.50 m
- ④ 21 across flats
- ⑤ Direction of operation