

83 778 ... waterproof limit switches

Plunger with adjustable roller in 45° steps

(basic sensitive microswitch 83 141 002)

PRESENTATION

This range of limit switches satisfies applications which require lightweight miniature devices without sacrificing mechanical and electrical performance. They are particularly well suited to severe environments such as : Aerospace, Armaments, Marine, etc.

The plungers for this range of limit switches are equipped with an ice-scraper seal, and an adjustable roller.

Product characteristics

Nominal current	10 Vdc	A	0.01
Resistive	30 Vdc	A	4
	220 Vac	A	1
Inductive L/R = 0.005 s	30 Vdc	A	2
	220 Vac	A	0.5
Service life at nominal current (min. operations)			50 000
Dielectric strength between connections and ground		V	1 500
Dielectric strength between connections		V	1 000
Insulation resistance (at 500 Vdc)		MΩ	100
Voltage drop at 1 A*		V	0.06
Operating temperature		°C	-55 +125
Resistance to shock		g/ms	50/11
Resistance to vibration		g/Hz	10/20 → 2000

* For flying leads, add 0.1 V/metre.

Connections

Wire : 0.38 mm² - 0.50 m long
 - Output parallel to device axis,
 - Output perpendicular to device axis

Connector : HE 301 type
 - NFC 93422
 - MIL-C 26482. G series 1,
 - VG 95328

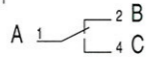
Seal

We guarantee that our products are sealed to level IP 66.

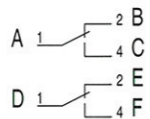
Electrical diagram

Plunger in released position

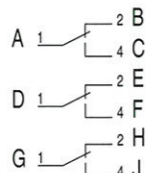
- 1-pole



- 2-pole



- 3-pole



Part numbers

1-pole	
2-pole	
3-pole	
Connection	parallel
wire	perpendicular
connector	HE 301 1H 10 6P
	HE 301 1H 12 10P

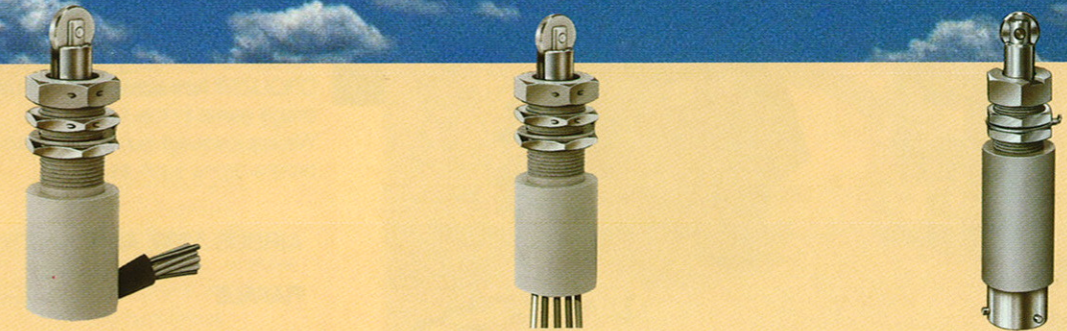
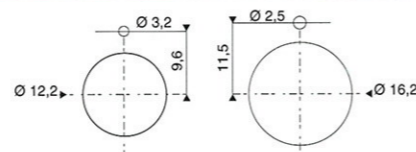
Product characteristics

Max. operating force	N
Min. release force	N
Max. total travel force	N
Max. pre-travel	mm
Max. differential travel	mm
Min. overtravel	mm
Weight (with wires)	g

Dimensions

107 - Stop washer 0.8 thick
 112 - Locating pin
 117 - Free position
 120 - Nuts h. 2.5 and 6 - 15 on flat
 121 - Nuts h. 3 and 6 - 21 on flat
 122 - Roller Ø 9.6 - Width. 3
 123 - Roller Ø 12.7 - Width. 3
 130 - Pin h. 2

Panel cut-out



83 778 021	83 778 321	83 778 621	83 778 011	83 778 311	83 778 611	83 778 031	83 778 331	83 778 631

60	60	60	60	60	60	60	60	60
10	10	18	10	10	18	10	10	18
150	150	150	150	150	150	150	150	150
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
0.2	0.5	0.5	0.2	0.5	0.5	0.2	0.5	0.5
3.2	3.2	5.5	3.2	3.2	5.5	3.2	3.2	5.5
37	46	87	37	46	87	40	40	80

83 778 021 83 778 321 83 778 621 83 778 011 83 778 311 83 778 611 83 778 031 83 778 331 83 778 631

