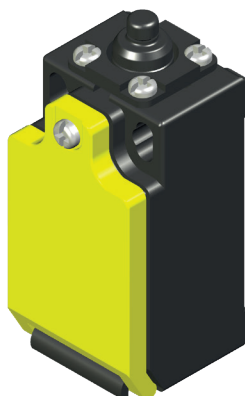




FTN131...



LIMIT SWITCH WITH Ø5.8 SHORT PLASTIC END PLUNGER

Thermoplastic limit switch
Vertical action
Electrically independent contacts (Zb)
Enclosure degree of protection: IP67
Compliance: EN 50047, IEC/EN 60947-5-1, UL 508, up to SIL3
Marking: CE, CCC, UL, EAC, UKCA

F T N

Series
FTN thermoplastic limit switch

1

Type
1 standard

3 1

Head and actuator
31 Ø5.8 short plastic end plunger

Contact type
X11 1NO/1NC slow action Zb
W02 2NC slow action Zb
W20 2NO slow action Zb
Z11 1NO/1NC snap action Zb
Z02 2NC snap action Zb
W12 1NO/2NC slow action Zb
W03 3NC slow action Zb

Lead exit dimension or type
blank M16 (standard)
M M20
N 1/2NPT
G1 PG11
G3 PG13.5
C 4 poles male code "A" M12×1 connector

Positive opening operation		NC contact ⊖
Minimum current		5 mA - 5 V DC
Thermal current	I _{th}	10 A
Rated insulation voltage	U _i	500 V
Rated impulse withstand voltage	U _{imp}	6 kV
Insulation resistance	min	100 MΩ (DC 500 V)
Contact resistance	max	25 mΩ (initial)
Enclosure material		glass filled PBT (UL approved)
Enclosure degree of protection		IP67
Operating temperature		-25 ... +80°C (-13 ... +176°F)
Pollution degree		3
Protection against electric shock		class II (double insulation) ▢
Mechanical life expectancy	min	1×10 ⁷ cycles
Electrical life expectancy	min	150000 cycles
Vibration	IEC 68-2-6 excursion	10-55 ±1 Hz 0.35 mm, 1 octave/min
Fixing		2 × M4 screws

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Contact types	Categories *	Ratings **	PT1	PT2 / RP	OF	POT ⊖	POF	TT
X11 1NO 1NC	A600 - Q600	AC15: 400 V - 4 A	2.8 mm	3.8 mm	7.3 N	3.5 mm	22 N	6.0 mm
W02 2NC			2.8 mm	-	7.3 N	3.5 mm	22 N	
W20 2NO			2.4 mm	-	8.2 N	-	-	
Z11 1NO 1NC	B600 - Q600	DC13: 24 V - 6 A	2.1 mm	1.1 mm	7.2 N	4.5 mm	16.3 N	6.0 mm
Z02 2NC			2.1 mm	0.9 mm	7.2 N	4.5 mm	16.3 N	
W12 1NO 2NC	A300 - Q300	DC13: 24 V - 6 A	2.6 mm	3.2 mm	7.3 N	3.8 mm	23 N	6.0 mm
W03 3NC			2.6 mm	-	7.3 N	3.8 mm	23 N	

* UL 508 / CSA C22-2 n° 14 ** IEC/EN 60947-1

X11 slow action 1 NO + 1 NC		
W02 slow action 2 NC		
W20 slow action 2 NO (*)		
Z11 snap action 1 NO + 1 NC		
Z02 snap action 2 NC		

W12 slow action 1 NO + 2 NC		
W03 slow action 3 NC		

(*) Not suitable for safety applications.

- PT1 Operating travel
- PT2 Second operating travel (slow action)
- RP Release position (snap action)
- OF Operating force
- POT Positive opening travel ⊖
- POF Positive opening force
- TT Total travel



M12 Connector pin arrangement - on request

(1) Mounting holes

Dimensions in mm / illustrations NOT in scale

