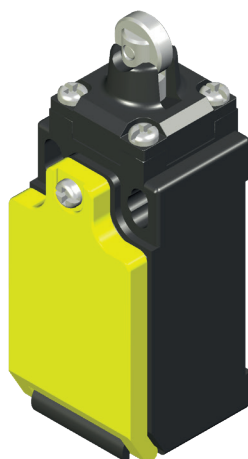




FTN145...



LIMIT SWITCH WITH Ø12 METAL ROLLER PLUNGER

Thermoplastic limit switch
Horizontal action
Adjustable head (90° steps)
Electrically independent contacts (Zb)
Enclosure IP rating: 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

4 5

Head and actuator
45 Ø12 metal
roller 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
G3 PG13.5
C 4 poles male code
"A" M12×1 connector

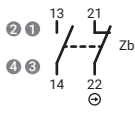
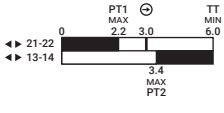
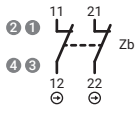
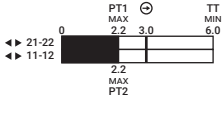
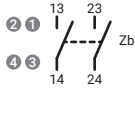
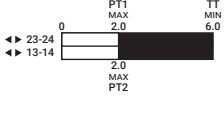
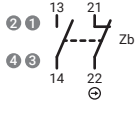
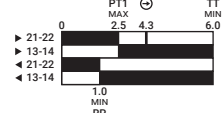
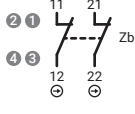


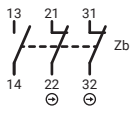
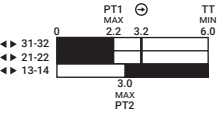
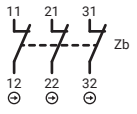
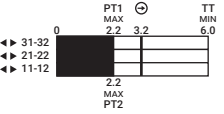
Positive opening operation		NC contact ⊖
Minimum current		5 mA - 5 V DC
Thermal current	I _{th}	10 A
Rated insulation voltage	U _i	500 V
Rated impulse withstand voltage	U _{imp}	6 kV
Insulation resistance	min	100 MΩ (DC 500 V)
Contact resistance	max	25 mΩ (initial)
Enclosure material		glass filled PBT (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	10-55 ±1 Hz
	excursion	0.35 mm, 1 octave/min
Fixing		2 × M4 screws

FTN145...

Contact types	Categories *	Ratings **	PT1	PT2 / RP	OF	POT ⊖	POF	TT
X11 1NO 1NC	A600 - Q600	AC15: 400 V - 4 A	2.2 mm	3.4 mm	12 N	3.0 mm	22 N	6.0 mm
W02 2NC			2.2 mm	-	6.8 N	3.0 mm	22 N	
W20 2NO	B600 - Q600	DC13: 24 V - 6 A	2.0 mm	-	8.3 N	-	-	
Z11 1NO 1NC			2.5 mm	1.0 mm	6.8 N	4.3 mm	16.3 N	
Z02 2NC	A300 - Q300		2.5 mm	0.7 mm	6.5 N	4.3 mm	16.3 N	
W12 1NO 2NC			2.2 mm	3.0 mm	6.5 N	3.2 mm	23 N	
W03 3NC			2.2 mm	-	6.0 N	3.2 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
(2) Metal roller

Dimensions in mm / illustrations NOT in scale

