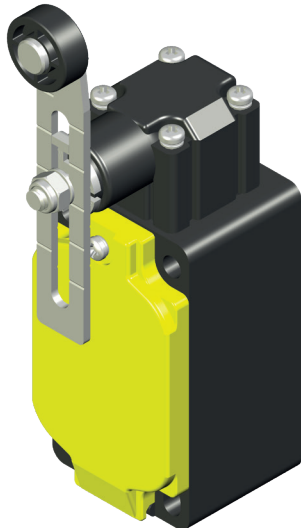


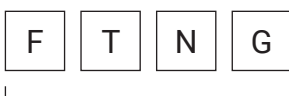


FTNG139...

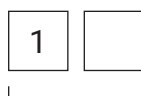


LIMIT SWITCH WITH Ø17.5 PA ROLLER LEVER WITH VARIABLE LENGTH

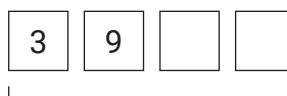
40 mm thermoplastic limit switches for heavy applications
Head and lid fixed by threaded inserts and metric screws
Horizontal action
Adjustable head (90° steps)
Adjustable lever (18° steps)
Electrically independent contacts (Zb)
Enclosure IP rating: IP67
Compliance: EN 50041, IEC/EN 60947-5-1, UL 508, up to SIL3
Marking: CE, CCC, UL, EAC, UKCA



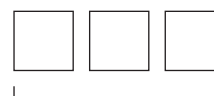
Series
FTNG 40 mm thermoplastic
limit switches for
heavy applications



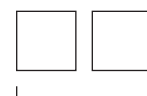
Type
1 standard



Head and actuator
39 Ø17.5 PA roller
lever with
variable length



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



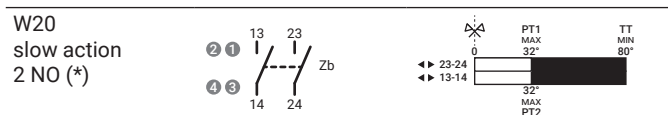
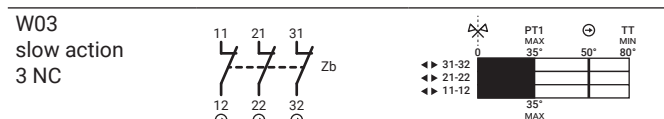
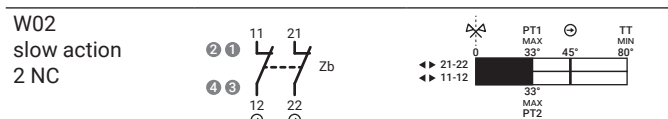
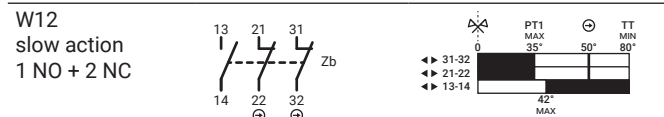
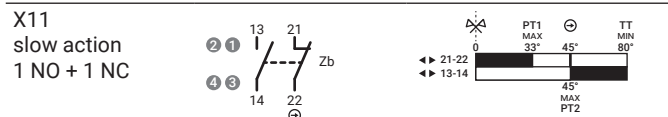
Lead exit dimension or type
blank M20 (standard)
N 1/2NPT
G3 PG13.5
C male connector

Positive opening operation		NC contact Ø
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)
Switching speed	max	250 mm/s
Switching frequency	max	6000 operations per hour
Enclosure material		glass filled PBT (UL approved)
Enclosure IP rating		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		4 × M4 screws

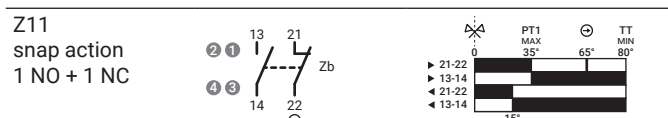
FTNG139...

Contact types	Categories *	Ratings **	PT1	PT2 / RP	OF	POT ⊖	POF	TT
X11 1NO 1NC	A600 - Q600	AC15: 400 V - 4 A	33°	45°	6.5 N	45°	8.5 N	80°
W02 2NC			33°	-	6.5 N	45°	8.5 N	
W20 2NO			33°	-	6.5 N	-	-	
Z11 1NO 1NC	B600 - Q600	DC13: 24 V - 6 A	35°	15°	5.5 N	65°	13.2 N	80°
Z02 2NC			35°	15°	5.5 N	65°	13.2 N	
W12 1NO 2NC	A300 - Q300	-	35°	42°	6.5 N	50°	8 N	80°
W03 3NC			35°	-	6.5 N	50°	8 N	

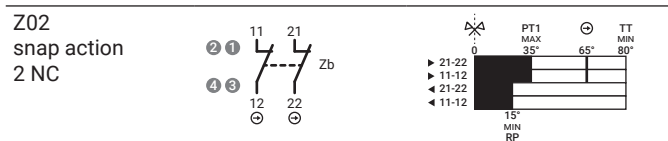
* UL 508 / CSA C22-2 n° 14 ** IEC/EN 60947-1



(*) 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) Plastic roller

Dimensions in mm / illustrations NOT in scale

