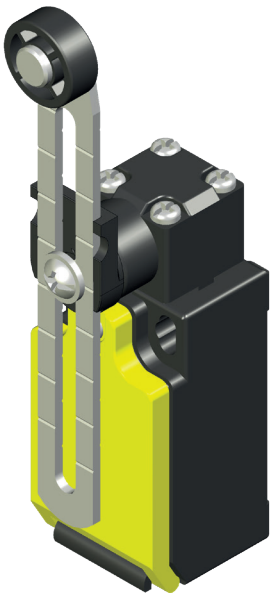
GIOVENZANA
INTERNATIONAL B.V.

Strawinskylaan 1105
1077 XX Amsterdam, The Netherlands

DS-FTN139x-EN / 08.11.2022

EN
datasheet



FTN139...

LIMIT SWITCH WITH Ø18 LONG PA ROLLER LEVER WITH VARIABLE LENGTH

- Thermoplastic limit switch
- Horizontal action
- Adjustable head (90° steps)
- Adjustable lever (18° 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	1		3	9								

Series
FTN thermoplastic limit switch

Type
1 standard

Head and actuator
39 Ø18 long 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	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	Ith	10 A
Rated insulation voltage	Ui	500 V
Rated impulse withstand voltage	Uimp	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	1×10⁷ 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

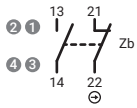
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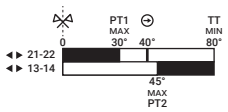
FTN139...

Contact types				Categories *	Ratings **	PT1	PT2 / RP	OF	POT ⊖	POF	TT
X11	1NO	1NC	slow action (Zb)	A600 - Q600	AC15: 400 V - 4 A DC13: 24 V - 6 A	30°	45°	6.5 N	40°	6 N	80°
W02		2NC				30°	-	6.5 N	40°	6 N	
W20	2NO					32°	-	6.5 N	-	-	
Z11	1NO	1NC	snap action (Zb)	B600 - Q600		30°	10°	2.1 N	62°	5.5 N	
Z02		2NC				30°	5°	2.1 N	62°	5.5 N	
W12	1NO	2NC	slow action (Zb)	A300 - Q300		32°	40°	6.5 N	45°	5.4 N	
W03		3NC				32°	-	6.5 N	45°	5.4 N	

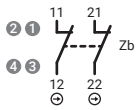
* UL 508 / CSA C22-2 n° 14 ** IEC/EN 60947-1

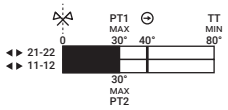
X11
slow action
1 NO + 1 NC



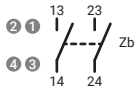


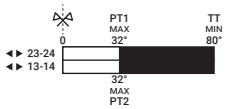
W02
slow action
2 NC



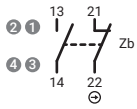


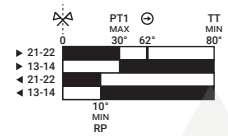
W20
slow action
2 NO (*)



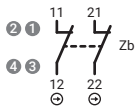


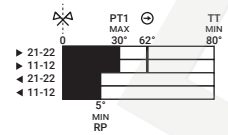
Z11
snap action
1 NO + 1 NC



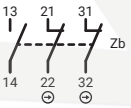


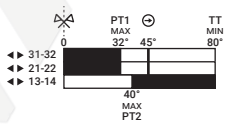
Z02
snap action
2 NC



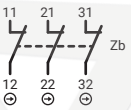


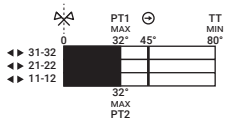
W12
slow action
1 NO + 2 NC





W03
slow action
3 NC





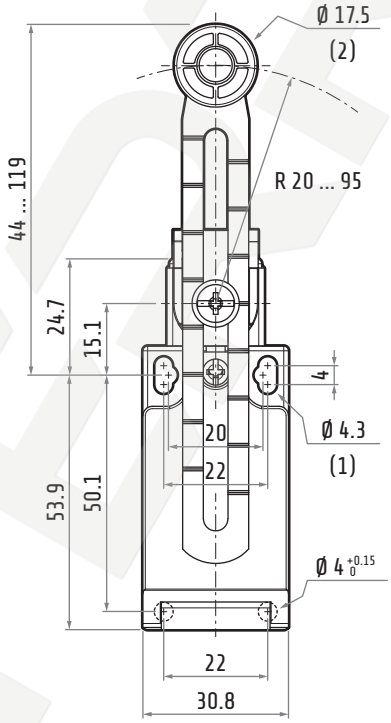
(*) Not suitable for safety applications.

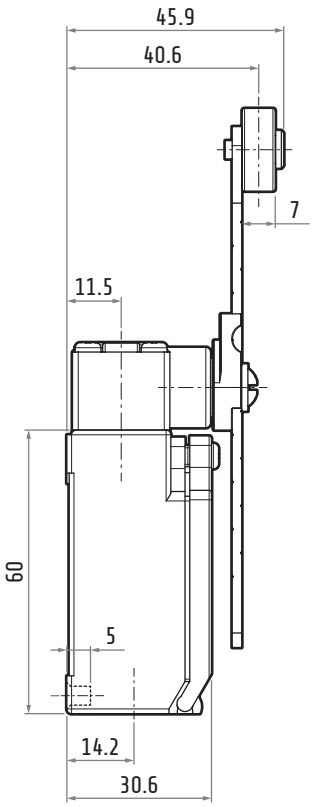
PT1	Operating travel
PT2	Second operating travel (slow action)
RP	Release position (snap action)
OF	Operating force
POT	Positive opening travel ⊖
POF	Positive opening force
TT	Total travel



M12 Connector pin arrangement - on request

(1) Mounting holes
(2) Plastic roller





Dimensions in mm / illustrations NOT in scale