IMO Miniature Pre-Cabled Limit Switches FA

Miniature, high accuracy, pre-cabled limit switches with robust metal cases conforming to standards NF C63-140 and NF C63-145 class Y2

- Positive break versions for safety circuits in conformity with BS60947-5-1, VDE 0660 part 206 and IEC 337-1
- Double-break Zb contacts with electrically separate NO and NC circuits
- Snap-action types
- Mounting holes are counterbored to keep screw heads within switch housing dimensions
- Standard types can be mounted using side holes or the screws in the top which also secure the actuator
- Threaded-head mounting models
- Actuator heads can be removed and rotated
- Plunger types are suitable for gang-mounting
- Lever type – Lever can be adjusted over 360˚ in 10˚ increments
- IP67

Options and ordering codes

FA 4 1 01

Miniature pre-cabled limit switches	FA
1NO + 1NC contacts	4
Snap-action contacts	1
Slow action contacts with positive break for safety circuits	6

Switch mounted by threaded head

Stainless steel piston plunger	10
In-line roller piston plunger	11
Transverse roller piston plunger	12
Sealed piston plunger	13

Actuators:
Switch mounted by the case

01	Stainless steel piston plunger
02	One way operation roller
08	Sealed piston plunger
15	In-line roller piston plunger
17	Transverse roller piston plunger
31	Roller lever with small offset
40	Roller lever with large offset
50	Adjustable stainless steel rod lever

Versions available with 5 metre cable.
Contact IMO for price and availability

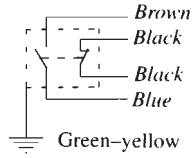
Specifications

Rated thermal current Ith	10A
Rated working voltage	500VAC/600VDC
Maximum operating frequency	6000/hour
Mechanical life	20 million operations
Contact form	1NO + 1NC
Initial contact resistance	<20 mOhms
Contact material	silver
Repeat accuracy	0.01mm
Dielectric strength	4000V between current carrying parts and ground
Protection rating	IP67
Ambient operating temperature	–25 to +75 deg. C
Cable	5 core, 0.75mm² x 2 metres long
Short-circuit protection required	10A HRC quick blow max.
Housing material	die cast metal alloy

Contact ratings

BS/EN 60947-5-1 AC15 – Control of AC electromagentic loads>72VA sealed – replaces AC11	120VAC	6A
	240VAC	4A
	400VAC	3A
DC13 – Control of DC electromagnetic loads where the time taken to reach 95% of the rated current is equal to 6 times the power of the load (where P>50W) – replaces DC11	24VDC	2.5A
	125VDC	0.55A
	250VDC	0.27A

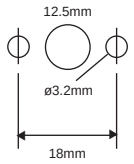
Wiring connections

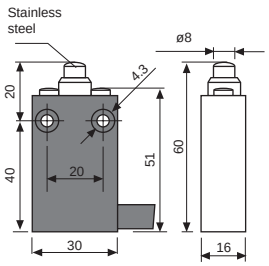
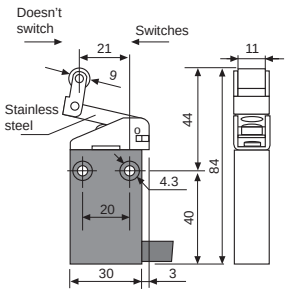
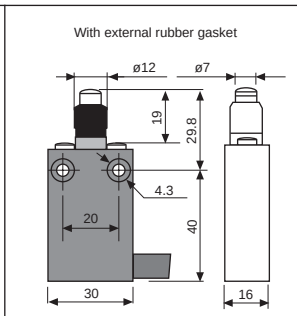
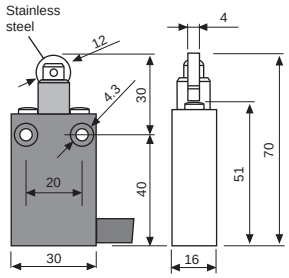
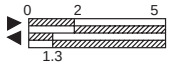
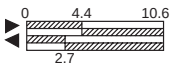
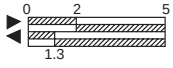
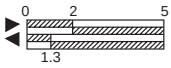
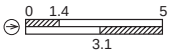
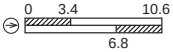
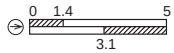
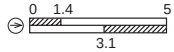


Note: The positive break applies to the NC wires of the type 6 contacts only. Connections to safety circuits should be made to the black wires only. Connections to safety circuits should NOT be made using the type 1 contacts. Slow action contacts are break before make. To ensure positive breaking of the NC contacts on the type 6 models, exceed the pre-travel by 1.5mm or 25˚, according to the model.

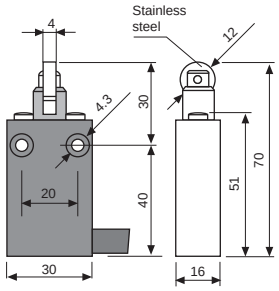
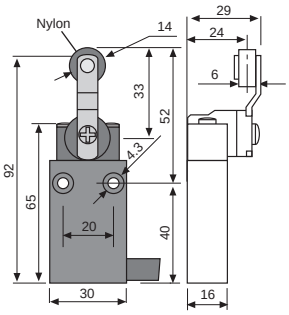
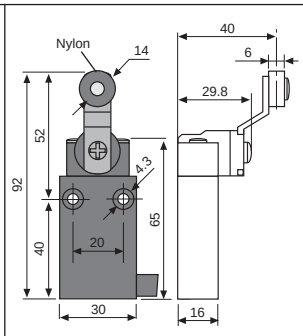
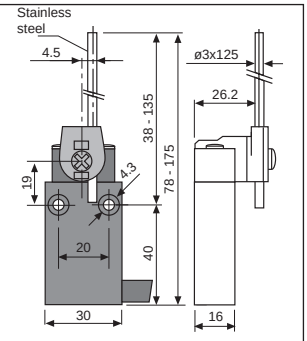
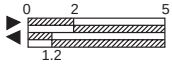
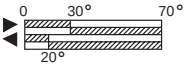
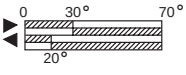
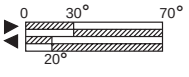
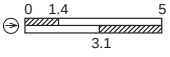
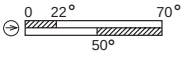
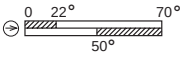
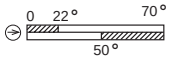
Dimensions and characteristics

Note: Top mounting panel holes



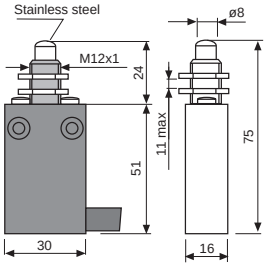
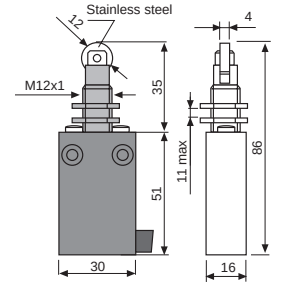
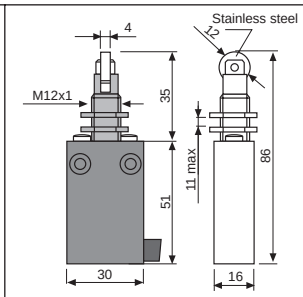
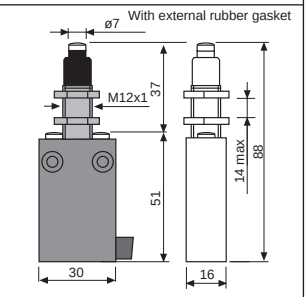
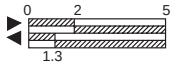
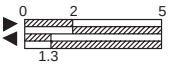
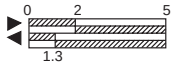
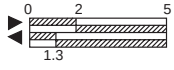
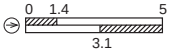
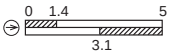
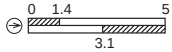
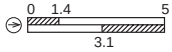
				
1NO+1NC *Snap action*	*FA 4101* 	*FA 4102* 	*FA 4108* 	*FA 4115* 
1NO+1NC *Slow action*	*FA 4601* 	*FA 4602* 	*FA 4608* 	*FA 4615* 
Max speed	0.5 m/sec	0.5 m/sec with cam 30°	0.5 m/sec	0.3 m/sec with cam 15°
Min force	10 N (20 N)	5 N (15 N)	10 N (20 N)	10 N (20 N)

Note: force figure in brackets is the recommended minimum force to ensure positive break of the NC contacts

				
1NO+1NC *Snap action*	*FA 4117* 	*FA 4131* 	*FA 4140* 	*FA 4150* 
1NO+1NC *Slow action*	*FA 4617* 	*FA 4631* 	*FA 4640* 	*FA 4650* 
Max speed	0.3 m/sec with cam 15°	1.5 m/sec with cam 30°	1.5 m/sec with cam 30°	1.5 m/sec
Min force	10 N (20 N)	6.5 Ncm (10 Ncm)	6.5 Ncm (10 Ncm)	6.5 Ncm (10 Ncm)

Note: Slow action models, minimum operating speed 1mm/s

Secured by threaded head only

				
1NO+1NC *Snap action*	*FA 4110* 	*FA 4111* 	*FA 4112* 	*FA 4113* 
1NO+1NC *Slow action*	*FA 4610* 	*FA 4611* 	*FA 4612* 	*FA 4613* 
Max speed	0.5 m/sec	0.3 m/sec with cam 15°	0.3 m/sec with cam 15°	0.5 m/sec
Min force	10 N (20 N)	10 N (20 N)	10 N (20 N)	10 N (20 N)

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