

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
- UL and CUL approved



The product FA4515-2DN is similar to FA4115-2DN but with one difference, it has a Positive Brack contact block with positive brake gauranteed after 4mm movement of the roller plunger.

Datasheet will be updated in due course.

Options and ordering codes

	FA	4	1	01	-	2DN*
Miniature pre-cabled limit switches	FM					
1NO + 1NC contacts		4				
Snap action contacts			1			
Slow-action contacts with positive break for safety circuits			6			
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
						Switch mounted by threaded head
10						Stainless steel piston plunger
11						In-line roller piston plunger
12						Transverse roller piston plunger
13						Sealed piston plunger

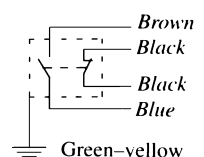
*Versions available with 5 metre cable. Contact IMO for other available options

Contact ratings

BS/EN 60947-5-1 AC15 – Control of AC electromagnetic 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.



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continued

Dimensions and characteristics continued

Secured by threaded head only

Note: Slow action models, minimum operating speed 1mm/s					
	1NO+1NC Snap action	FA 4110-*DN 	FA 4111-*DN 	FA 4112-*DN 	FA 4113-*DN
	1NO+1NC Slow action	FA 4610-*DN 	FA 4611-*DN 	FA 4612-*DN 	FA 4613-*DN
	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)

* = Cable length