SCHMERSAL IEC Limit Switches

Plastic Body Limit Switches 236 Series

Features

- 16 models available
- 90-degree adjustable head, levers are adjustable to any angle on the operating shaft
- Double-insulated thermoplastic enclosure
- Fully assembled out of box
- Snap action with constant contact pressure up to switching point
- M20 x 1.5 to 1/2in NPT conduit adapter
- Contact patterns similar to those of leading competitors

Thermoplastic Body Limit Switches 236 Series

Part Number	Price	Actuator Type	Snap Action Contacts	Travel to Operate Contacts	Total Travel	Actuating Force (min)	Switch Travel Diagram	Drawing Link *
ZS-236-02Z	$18.50	Plastic plunger	(2) N.C.	0.07in [1.8mm]	0.24in [6mm]	79.66 lb-in [9 N•m]	Diagram 1	PDF
ZS-236-11Z	$18.50		(1) N.O./(1) N.C.	0.1in [2.5mm]			Diagram 2	PDF
ZR-236-02Z	$21.00	Metal plunger with plastic roller	(2) N.C.	0.07in [1.8mm]			Diagram 1	PDF
ZR-236-11Z	$21.00		(1) N.O./(1) N.C.	0.1in [2.5mm]			Diagram 2	PDF
Z4S-236-02Z	$34.00	Metal plunger with fixing nuts	(2) N.C.	0.07 in [1.8 mm]			Diagram 1	PDF
Z4S-236-11Z	$34.00		(1) N.O./(1) N.C.	0.1in [2.5mm]			Diagram 2	PDF
Z4R-236-02Z	$38.00	Metal plunger with plastic roller with fixing nuts	(2) N.C.	0.07in [1.8mm]			Diagram 1	PDF
Z4R-236-11Z	$38.00		(1) N.O./(1) N.C.	0.1in [2.5mm]			Diagram 2	PDF
ZV12H-236-02Z	$35.50	Side rotary lever with plastic roller	(2) N.C.	22°	70°	1.33 lb-in [0.15 N•m]	Diagram 3	PDF
ZV12H-236-11Z	$35.50		(1) N.O./(1) N.C.				Diagram 3	PDF
ZK-236-02Z	$25.00	One-way horizontal lever with plastic roller	(2) N.C.	0.1in [2.5mm]	0.37in [9.3mm]	79.66 lb-in [9 N•m]	Diagram 5	PDF
ZK-236-11Z	$25.00		(1) N.O./(1) N.C.	0.14in [3.6mm]			Diagram 6	PDF
ZV7H-236-02Z-2138	$39.00	Side rotary adjustable lever with plastic roller	(2) N.C.	22°	70°	1.33 lb-in [0.15 N•m]	Diagram 3	PDF
ZV7H-236-11Z-2138	$39.00		(1) N.O./(1) N.C.	30°			Diagram 4	PDF
ZV10H-236-02Z	$38.00	Side rotary adjustable 6mm plastic rod	(2) N.C.	22°	70°		Diagram 7	PDF
ZV10H-236-11Z	$38.00		(1) N.O./(1) N.C.	30°			Diagram 8	PDF

*** Weights are included on the drawing**

ZS-236-02Z

ZR-236-02Z

Z4S-236-02Z

Z4R-236-02Z

ZV12H-236-02Z

ZK-236-02Z

ZV7H-236-02Z-2138

ZV10H-236-02Z

SCHMERSAL 235/236 Series Travel Diagrams

Switch Travel Diagrams

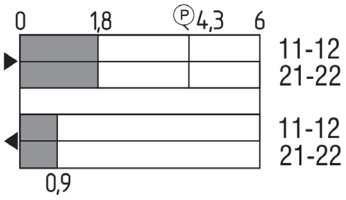

Diagram 1

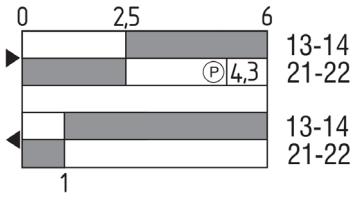

Diagram 2

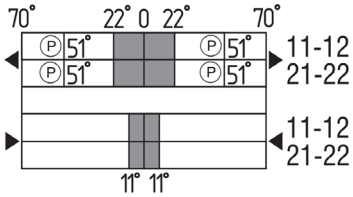

Diagram 3

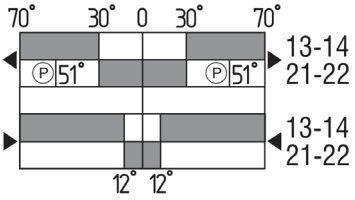

Diagram 4

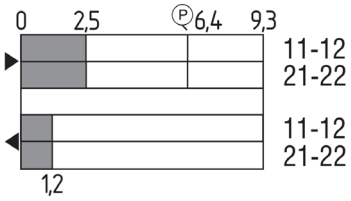

Diagram 5

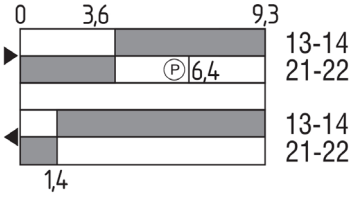

Diagram 6

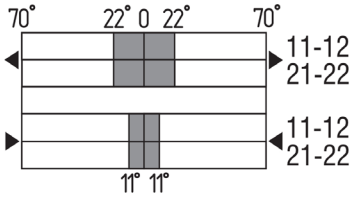

Diagram 7

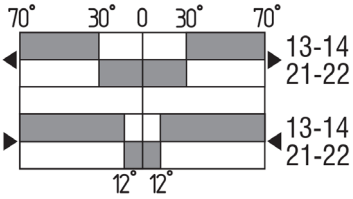

Diagram 8

Contact Travel Diagrams

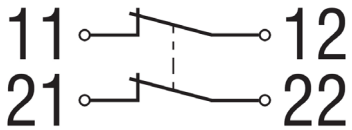

Diagram 1

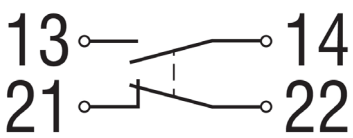

Diagram 2

SCHMERSAL 235/236 Series Specifications

235/236 Series Specifications			
Series		***235***	***236***
Environmental			
Degree of Protection		IP67	
Temperature Range		-30 to +80 °C [-22 to +176 °F]	
Mechanical Ratings			
Body Footprint (Without Actuator Head)		30 x 30 x 63.5mm	30 x 30 x 58.5mm
Mechanical Life		20 Million Operations	
Conduit Entrance		M20 x 1.5, each unit comes with a 1/2in NPT adapter	
Enclosure Material		Die-cast zinc alloy	Plastic, Glass-fiber reinforced thermoplastic, self-extinguishing
Contact Blocks Rating			
Rated Impulse Withstand Voltage		6 kV	
Electrical Ratings	***AC***	AC-15 - 4A @ 230 VAC Continuous: 10A @ 230 VAC Required rated short-circuit current to EN60947-5-1 : 1,000A	
	DC	DC-13 - 1A @ 24 VDC	
Maximum Switching Frequency		5,000 operations per hour, Switchover time: Max 5.5 ms, Bounce Duration: Max 3 ms	
Contact Type		Change-over contact with double break, type 1 N.C. or 2 N.C. contacts, with galvanically separated contact bridges: snap-action, N.C. contacts with positive break	
Wiring Connections		AWG #14 through AWG #18 Wire	
Torque Requirements		Wiring Terminals: 7.1 in-lb [0.8 N•m]	
Safety Data			
General		02Z Series - Safety Function, Yes: Number of Safety Contacts: 2 11Z Series - Safety Function, Yes, Number of Safety Contacts 1, Number of Aux Contacts 1	
Safety Appraisal		Standards: ISO 13849-1, Mission Time 20 Year(s) Safety Outputs: B10d Normally-closed contact (N.C.), 20,000,000 Operations	
Agency Approvals*		cULus E57648 all versions. All units are CE and Reach Compliant Standards: IEC 60947-5-1 : 2010, ISO 13849-1, BG-GS-ET-15, ISO 13849-1	

***To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.**