

ZE/ZV/ZV2

Enclosed Limit Switches



Features

- Large switching capacity and long service life
- 15-amp, 125 VAC switching capacity
- Rugged diecast housing
- Sealed (booted) switches meet NEMA types 1, 2, 3, 4 and 5
- UL recognized (File No. E76675) and CSA certified (File No. LR21642)

Electrical Specifications – Maximum Carrying Currents

Rated voltage	Non-inductive load (amps)				Inductive load (amps)				Inrush current (amps)	
	Resistive load		Lamp load		Inductive load		Motor load		NC	NO
	NC	NO	NC	NO	NC	NO	NC	NO		
125 VAC	15	15	3	1.5	15	15	5	2.5	30 max.	15 max.
250 VAC	15	15	2.5	1.25	15	15	3	1.5	30 max.	15 max.
480 VAC	10	10	1.5	0.75	6	6	1.5	0.75	30 max.	15 max.
125 VDC	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	30 max.	15 max.
250 VDC	0.25	0.25	0.25	0.25	0.03	0.03	0.03	0.03	30 max.	15 max.

Note: 1. Inductive load has a power factor of 0.4 minimum (AC) and a time constant of 7 msec (CC).
 2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.

Operating Characteristics

Part number	Description	OF	RF	OT	PT	MD	OP
ZE-N-2S	Sealed pin plunger	800 g (28.2 oz.)	240 g (8.5 oz.)	5 mm (0.197 in.)	2 mm (0.079 in.)	0.1 mm (0.004 in.)	45.8 ± 0.8 mm (1.80 ± 0.03 in.)
ZE-N22-2S	Sealed roller plunger	500 g (17.6 oz.)	100 g (3.5 oz.)	3.5 mm (0.138 in.)	1 mm (0.039 in.)	0.12 mm (0.005 in.)	49.7 ± 0.8 mm (1.96 ± 0.03 in.)
ZE-NA2-2S	Sealed roller arm lever	640 g (22.6 oz.)	230 g (8.1 oz.)	6 mm (0.236 in.)	5 mm (0.197 in.)	0.4 mm (0.016 in.)	—
ZE-NJ-2S	Sealed coil spring	150 g (5.3 oz.)	—	—	15°	—	—

Legend: OF = Operating Force (max.); RF = Reset Force (min.); OT = Overtravel (min.); PT = Pretravel;
 MD = Movement Differential (max.); OP = Operating Position

Dimensions [Unit: mm (inch)]

Part number	Actuator	L	W	D
ZE-N-2S	Sealed pin plunger	86.11 (3.39)	29.46 (1.16)	73.15 (2.88)
ZE-N22-2S	Sealed roller plunger	86.11 (3.39)	29.46 (1.16)	75.95 (2.99)
ZE-NA2-2S	Sealed roller arm lever	86.11 (3.39)	29.46 (1.16)	101.6 (4.00)
ZE-NJ-2S	Sealed coil spring	86.11 (3.39)	29.46 (1.16)	173.99 (6.85)