

ZE175□, ZE275□



3-lead Wire PNP Output Type Solid State Sensor Switches

Applicable cylinders

●Mini bit cylinders ●Jig cylinders C series ●Jig cylinders JC series ●Mini guide sliders ●Jig cylinders with guides ●Twin rod cylinders B series ●Rod sliders ●Multi sliders ●Z sliders ●WS ●WT ●ACY^{Note 2} ●ACZ^{Note 2} ●Flat rodless cylinders^{Note 2} ●ORV^{Note 2} ●ORS, MRS^{Note 2} ●ORW, MRW^{Note 2} ●NHC1 series ●Air Hands NHB ●Wide type Air Hands WHDP^{Note 3} ●Flat type Air Hands ●RAG ●RAT ●Three-finger Hands

Notes: 1. Because the same conductor as the robot cable is used, it exhibits superior bending resistance.

2. Horizontal lead wire only

3. Vertical lead wire only

Specifications

Item	Model	ZE175□	ZE275□
Wiring type		3-lead wire PNP output	
Lead wire direction		Horizontal	Vertical
Power supply voltage		DC4.5~28V	
Load voltage		DC4.5~28V	
Load current		50mA MAX.	
Consumption current		10mA MAX. (DC24V)	
Internal voltage drop ^{Note 1}		0.5V MAX. (10V or less at 20mA)	
Leakage current		50 μ A MAX. (DC24V)	
Response time		1ms MAX.	
Insulation resistance		100M Ω MIN. (At DC500V Megger, between case and lead wire end)	
Dielectric strength		AC500V (50/60Hz) in 1 minute (Between case and lead wire end)	
Shock resistance ^{Note 2}		294.2m/s ² [30G] (Non-repeated shock)	
Vibration resistance ^{Note 2}		88.3m/s ² [9G] (Total amplitude 1.5mm [0.06in.], 10~55Hz)	
Environmental protection		IP67 (IEC standard), JIS C0920 (Water-proof type)	
Operation indicator		When ON: Red LED indicator lights up	
Lead wire ^{Note 3}		PCCV 0.15SQ \times 3-lead (Brown, blue, and black) $\times \ell$	
Ambient temperature		0~60°C [32~140°F]	
Storage temperature range		-10~70°C [14~158°F]	
Mass		15g [0.53oz.] (For lead wire length A: 1000mm [39in.]), 35g [1.23oz.] (For lead wire length B: 3000mm [118in.]), 15g [0.53oz.] (For lead wire length G: 300mm [11.8in.] with M8 connector)	

Notes: 1. The internal voltage drop depends on load current.

2. Measured by Koganei test standard.

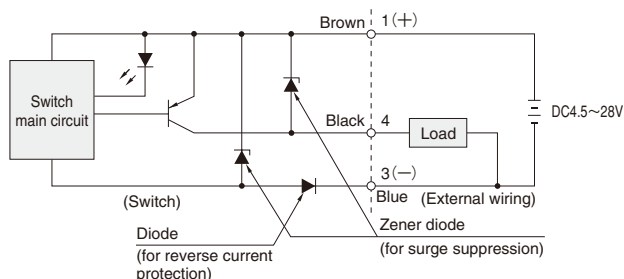
3. Lead wire length ℓ : A: 1000mm [39in.], B: 3000mm [118in.], G: 300mm [11.8in.] with M8 connector

※ This product is not resistant to lightning surge of the EMC standard (EN61000-6-2 • EN60947-5-2).

Prepare protection measures for lightning surge in the system.

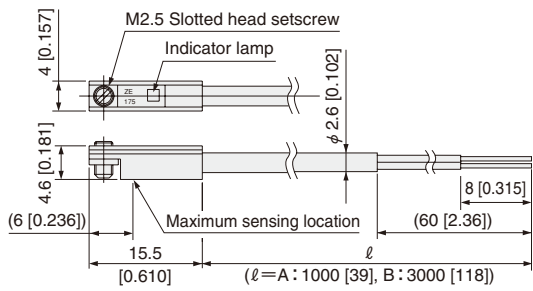
Internal Circuit

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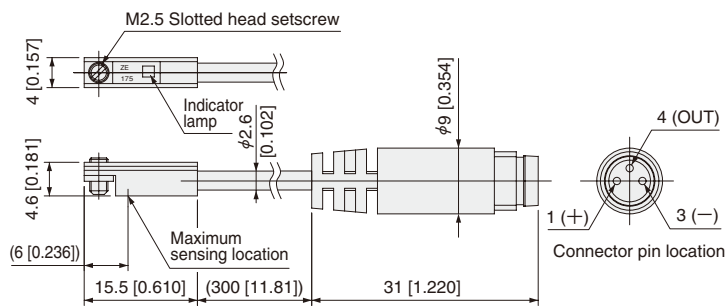


●Horizontal Lead Wire

ZE175A
ZE175B

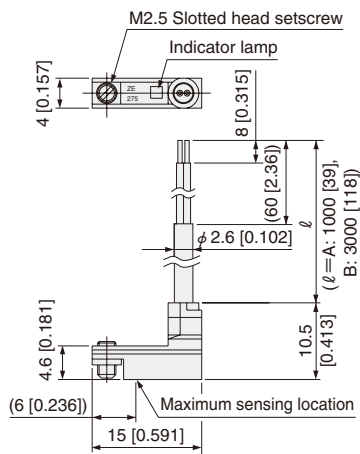


ZE175G



●Vertical Lead Wire

ZE275A
ZE275B



ZE275G

