

Magnetic Field Resistant

2-Color Indicator Solid State Auto Switch

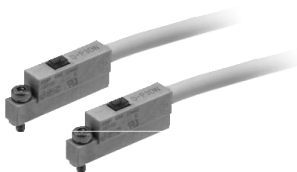


D-P3DW

(Electrical Entry: Grommet)



- It is possible to use in an environment which generates a magnetic field disturbance (AC magnetic field).
- The proper operating range can be determined by the color of the light.
(Red → Green ← Red)



⚠ Caution

Precautions

For single-phase AC welding machines. If it is used for current inverter welders (including rectifying type) and condenser type welders, the magnetic field resistance is reduced. Please contact SMC regarding the performance.

Magnetic Field Resistance

If the current of the AC welding machine is 16000 A or lower, the auto switch can be used, even if the distance between the welding conductor (gun cable) and the cylinder/actuator or auto switch is 0 mm. Please contact SMC when the AC welding current exceeds 16000 A.

Weight

Auto switch model		D-P3DW
Lead wire length	0.5 m (Nil)	20
	3 m (L)	102
	5 m (Z)	168

Auto Switch Specifications

PLC: Programmable Logic Controller

D-P3DW (With indicator light)	
Auto switch model	D-P3DW
Applicable load	24 VDC relay, PLC
Load voltage	24 VDC
Load current	6 to 40 mA or less
Internal voltage drop	5 V or less
Leakage current	1 mA or less at 24 VDC
Operating time	40 ms or less
Indicator light	Operating range Red LED illuminates. Proper operating range Green LED illuminates.
Standard	CE marking, UL (CSA), RoHS

Oilproof Heavy-duty Lead Wire Specifications

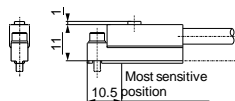
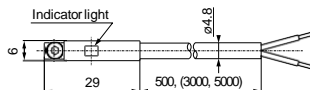
Auto switch model		D-P3DW
Sheath	Outside diameter [mm]	ø4.8
Insulator	Number of cores	2 cores (Brown/Blue)
	Outside diameter [mm]	ø1.52
Conductor	Effective area [mm ²]	0.5
	Strand diameter [mm]	ø0.08
Minimum bending radius [mm] (Reference value)		29

- Impact resistance — Switch: 1000 m/s²
- Insulation resistance — 50 MA or more (500VDC measured via megohmmeter) (between lead wire and case)
- Withstand voltage — 1000 VAC for 1 minute (between lead wire and case)
- Ambient temperature — -10 to 60°C
- Enclosure — IEC60529 standard IP67
- Polarity: Non-polar

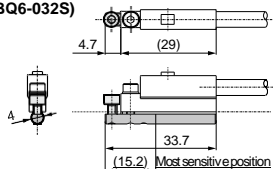
Dimensions

(mm)

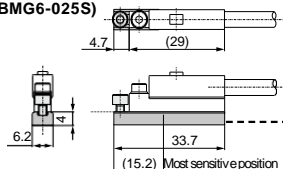
Body



Auto switch mounting bracket (For round groove mounting: BQ6-032S)



Auto switch mounting bracket (For square groove mounting: BMG6-025S)



* When the auto switch is ordered on its own, the auto switch mounting bracket is not enclosed. In that case, please order it separately.

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