

Magnetic Field Resistant 2-Color Indicator Solid State Auto Switch

D-P4DWSC/D-P4DWSE/D-P4DW□DPC

(Electrical Entry: Pre-wired connector)



Refer to SMC website for the details of the products conforming to the international standards.

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. Not applicable for DC inverter welding machines (including rectifying type) and/or condenser type welding.



Connector pin

| Model | Connector pin/Wiring | | | |
|------------|----------------------|---|--------|--------|
| | 1 | 2 | 3 | 4 |
| D-P4DWSC | — | — | OUT(⊕) | OUT(±) |
| D-P4DWSE | OUT(±) | — | — | OUT(⊕) |
| D-P4DW□DPC | — | — | OUT(⊕) | OUT(±) |

Auto Switch Specifications

PLC: Programmable Logic Controller

| D-P4DW□ (With indicator light) | | | | | |
|--------------------------------|---|----------|-------------|-------------|-------------|
| Auto switch model | D-P4DWSC | D-P4DWSE | D-P4DWS DPC | D-P4DWM DPC | D-P4DWL DPC |
| Applicable load | 24 VDC relay, PLC | | | | |
| Load voltage | 24 VDC (20 to 28 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 (EMC directive/RoHS directive) | | | | |

Oilproof Heavy-duty Lead Wire Specifications

| Auto switch model | | D-P4DWSC | D-P4DWSE | D-P4DWS DPC | D-P4DWM DPC | D-P4DWL DPC |
|-------------------|--|----------|----------|-------------|-------------|-------------|
| Length [m] | | 0.3 | 0.3 | 0.5 | 1 | 3 |
| Sheath | Outside diameter [mm] | ø6 | | | | |
| | Number of cores | 2 cores | | | | |
| Insulator | Outside diameter [mm] | ø2.3 | | | | |
| | Effective area [mm ²] | 0.5 | | | | |
| Conductor | Strand diameter [mm] | ø0.08 | | | | |
| | Minimum bending radius [mm] (Reference values) | 48 | | | | |

- Impact resistance — Switch: 1000 m/s²; Connector: 300 m/s²
- Note 1) Refer to page 1584 for solid state auto switch common specifications.
- Note 2) Refer to page 1584 for lead wire lengths.
- Polarity — Non-polar

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 or switch is 0 mm. Please contact SMC when the AC welding current exceeds 16000 A.

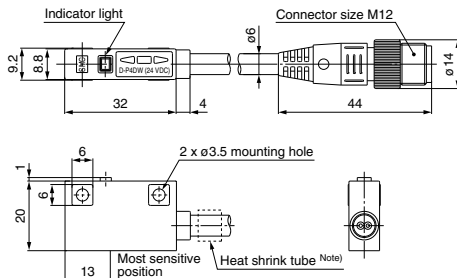
Weight

(g)

| Auto switch model | D-P4DWSC | D-P4DWSE | D-P4DWS DPC | D-P4DWM DPC | D-P4DWL DPC |
|-------------------|----------|----------|-------------|-------------|-------------|
| | 35 | 35 | 52 | 68 | 161 |

Dimensions

(mm)



Note) Only for D-P4DWSE
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