

Magnetic Field Resistant

2-Color Indicator Solid State Auto Switch

DP4DWSC DP4DWSE DP4DWP DP4DWC

(Electrical Entry: Pre-wired connector)



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 |
| DP4DWSC | — | — | OUT(—) | OUT(+) |
| DP4DWSE | OUT(+) | — | — | OUT(—) |
| DP4DWP | — | — | OUT(—) | OUT(+) |

Auto Switch Specifications

PLC: Programmable Logic Controller

| D-P4DW (With indicator light) | | | | | |
|-------------------------------|---|---------|----------|----------|----------|
| Auto switch model | DP4DWSC | DP4DWSE | DP4DWSPC | DP4DWPFC | DP4DWPFC |
| 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/UKCA marking | | | | |

Oilproof Heavy-duty Lead Wire Specifications

| Auto switch model | DP4DWSC | DP4DWSE | DP4DWSPC | DP4DWPFC | DP4DWPFC |
|---|----------------------------|---------|----------|----------|----------|
| Length [m] | 0.3 | 0.3 | 0.5 | 1 | 3 |
| Sheath | Outside diameter [mm] ø6 | | | | |
| Insulator | Number of cores 2 cores | | | | |
| | Outside diameter [mm] ø2.3 | | | | |
| Conductor | Effective area [mm²] 0.5 | | | | |
| | Strand diameter [mm] ø0.08 | | | | |
| Minimum bending radius [mm] (Reference value) | 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.

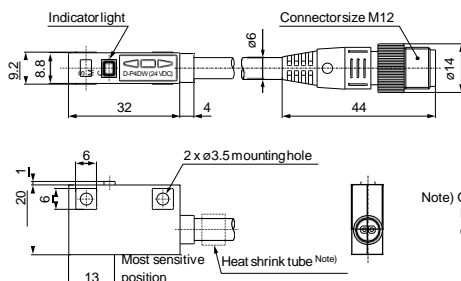
Weight

(g)

| Auto switch model | DP4DWSC | DP4DWSE | DP4DWSPC | DP4DWPFC | DP4DWPFC |
|-------------------|---------|---------|----------|----------|----------|
| | 35 | 35 | 52 | 68 | 161 |

Dimensions

(mm)



Note) Only for D-P4DWSE Printed contents: SE 1-4

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