

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

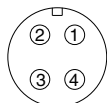
- It is possible to use in an environment which generates a magnetic field disturbance (AC magnetic field).
- The proper operating range can be determined by the color of the light. (Red → Green ← Red)



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.

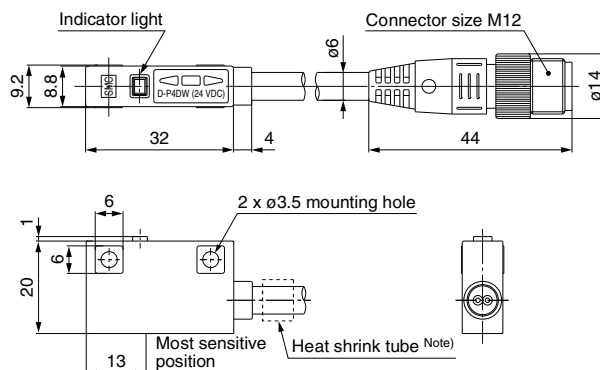
Weight

(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
Printed contents: SE 1-4