# **Magnetic Field Resistant** 2-Color Indicator Solid State Auto Switch C & C Thus D-P3DWSC/D-P3DWSE

(Electrical Entry: Pre-wired connector)



• 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.  $(Red \rightarrow Green \leftarrow Red)$ 



### **∆**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.

## **Auto Switch Specifications**

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

PLC: Programmable Logic Controller

D-P3DWSC/E (With indicator light)			
Auto switch model	D-P3DWSC	D-P3DWSE	
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 sw	itch model	D-P3DWSC	D-P3DWSE
Sheath	Outside diameter [mm]	ø4.8	
Insulator	Number of cores	2 cores	
insulator	Outside diameter [mm]	ø1.52	
Conductor	Effective area [mm²]	0.5	
Conductor	Strand diameter [mm]	ø0.08	
Minimum bending radiu	s [mm] (Reference values)	2	9

- Impact resistance Switch: 1000 m/s², Connector: 300 m/s²
- Insulation resistance 50 MΩ or more (500 VDC 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

# 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

(g)

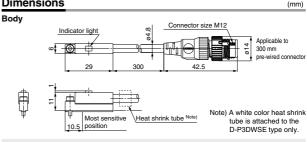
Auto switch me	odel	D-P3DWSC	D-P3DWSE
Lead wire length (m)	0.3	2	3

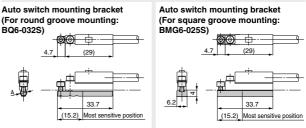


Connector pin

Model	Connector pin/Wiring			
iviodei	1	2	3	4
D-P3DWSC	_	_	OUT(∓)	OUT(±)
D-P3DWSE	OUT(±)	-	-	OUT(∓)

# **Dimensions**





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



**Magnetic Field Resistant** 2-Color Indicator Solid State Auto Switch C C Sus

D-P3DW (Electrical Entry: Grommet)

Refer to SMC website for the details of the products conforming to the **Auto Switch Specifications** 

international standards. PLC: Programmable Logic Controller

	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 III (CSA) RoHS	

### Oilproof Heavy-duty Lead Wire Specifications

Auto sw	itch model	D-P3DW
Sheath	Outside diameter [mm]	ø4.8
Insulator	Number of cores	2 cores (Brown/Blue)
insulator	Outside diameter [mm]	ø1.52
Conductor	Effective area [mm²]	0.5
Conductor	Strand diameter [mm]	ø0.08
Minimum bending radiu	s [mm] (Reference values)	29

- Impact resistance Switch: 1000 m/s²
- ullet Insulation resistance 50 M $\Omega$  or more (500 VDC 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

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# 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.

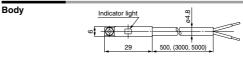
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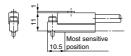
### Weight

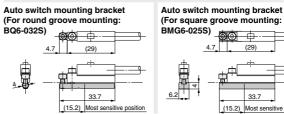
Auto switch model		D-P3DW
	0.5 m ( <b>Nil</b> )	20
Lead wire length	3 m ( <b>L</b> )	102
	5 m ( <b>Z</b> )	168

### **Dimensions**

(mm)







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

33.7

Most sensitive position