Heat Resistant Reed Auto Switch D-B30(J)/31(J)/35(J)

(6

Can be used outdoors or under high temperature (Max. 120°C). Wide operating range (double that of other SMC products) enables stable position detection.



High temperature environment such as places around ignited gas outlet or furnace

Outdoor plants and environment with high temperature and humidity

Environment for steam cleaning or high temperature sterilization

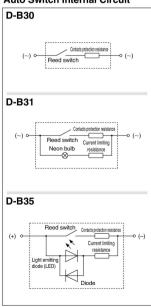
Applications requiring wide operating range such as clamping of elastic work pieces

Use of metal case and heat resistant materials.

The construction prevents influence of external environment by sealing the auto switch internal parts to improve heat resistance.

The wide operating range allows easy position setting and reduces influence of the work piece position changes.

Auto Switch Internal Circuit



Auto Switch Specifications

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

	PLC: Programmable Logic Controller						
Auto switch model	D-B30	D-B30J	D-B31	D-B31J	D-B35	D-B35J	
Electrical entry	Terminal	Grommet	Terminal	Grommet	Terminal	Grommet	
	conduit		conduit		conduit		
Operating voltage	24 VDC / 100 VAC		100 VAC		24 VDC		
Operating current range	5 to 30 mADC / 5 to 20 mAAC		5 to 20 mAAC		5 to 30 mADC		
Internal voltage drop	2.5 V or less		2.5 V or less		2.0 V or less		
Indicator light	Without indicator light		Neon bulb lights up when OFF		Red LED lights up when OFF		
Applicable load	PLC (Programmable Logic Controller)						
Shock resistance	300 m/s ²						
Leakage current	0.1 mA or less		1 mA or less		1 mA or less		
Lead wire		0.5 m	_	0.5 m	_	0.5 m	
Enclosure	Terminal conduit : IEC60529 IP64						
	Grommet : IEC60529 IP67						
Withstand voltage	1500 VAC for 1 minute (between case and terminals or lead wires)						
Insulation resistance	$50\ \text{M}\Omega$ or larger between case (ground) and lead wires (terminals)						
Operating temperature range	-10°C to 120°C						
Standard	CE marking						

Oilproof Heavy-duty Lead Wire Specifications

Oliprool Heavy-duty Lead wire Specifications						
Auto switch model		D-B30J	D-B31J	D-B35J		
Sheath	Outside diameter [mm]	ø6				
Insulator	Number of cores	2 cores (Brown/Blue)				
	Outside diameter [mm]		ø2.3			
Conductor	Effective area [mm²]	0.5				
	Strand diameter [mm]	ø0.08				
Lead wire minimum bending	imum bending radius [mm] (Reference values) 48 (Room temperature))			

Weight

(g)

Auto switch model		D-B30	D-B30J	D-B31	D-B31J	D-B35	D-B35J
Lead wire length	None	190	_	190	_	190	_
	0.5 m (Nil)	-	250	_	250	_	250
	3 m (L)	_	268	_	268	-	268
	5 m (Z)	_	462	_	462	-	462

Lead wire length

In case of the grommet type (J type), the lead wire length is 0.5 m.

(No lead wire is attached to the terminal conduit type.)

Manufacture of 3 m and 5 m types is also possible. Please consult SMC for these types.

D-□

