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

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

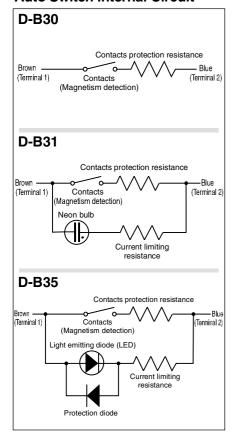
Applications requiring wide operating range such as clamping of elastic work pieces

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

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

Auto Switch Internal Circuit



Auto Switch Specifications

| | PLC: Programmable Logic Controlle | | | | | | | |
|-----------------------------|--|--------------------------|------------------------------|--------------------------|----------------------------|--------------------------|--|--|
| 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 ^{Note 1)} | _ | 0.5 m ^{Note 1)} | _ | 0.5 m ^{Note 1)} | | |
| 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 | | | | | | | |

Note 1) Lead wire specifications: Outside diameter 6 mm; Fluororubber sheath; HBO-FTCF; 0.5 mm²x 2

Mass (g)

| Auto switch model | | D-B30 | D-B30J | D-B31 | D-B31J | D-B35 | D-B35J |
|----------------------|-----|-------|--------|-------|--------|-------|--------|
| Lead wire length (m) | 0.5 | 190 | 250 | 190 | 250 | 190 | 250 |
| | 3 | _ | 368 | _ | 368 | _ | 368 |
| | 5 | _ | 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.

36, Jalan Industri USJ 1/13, Taman Perindustrian USJ1, 47600 Subang Jaya, Selangor.
Tel: 603-8023 7743 / 8743 Fax: 603-8023 9743 email: sales@gentle.com.my / gpauto@tm.net.my