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|-----------------|---------------------|-----------------|
| R Series | Applicable cylinder | GLC HCA MFC SHC |
|-----------------|---------------------|-----------------|



R*/R*Y



R*B



R*A

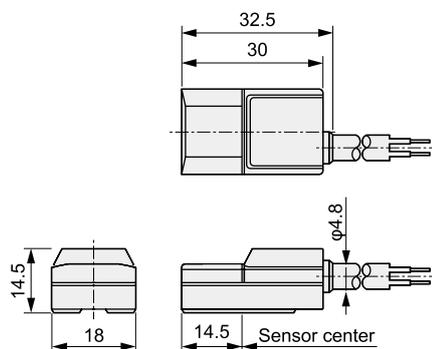
Specifications

| Descriptions | Proximity 2-wire | | | Proximity 3-wire | |
|-----------------------|---|---|------------------------------|--|-----------------------------|
| | R1/R1K | R2/R2K | R2Y/R2YK (2-color display) | R3/R3K | R3Y/R3YK (2-color display) |
| Applications | For programmable controller, relay, compact solenoid valve | Dedicated for programmable controller | | For programmable controller, relay, IC circuit, solenoid valve | |
| Output method | - | | | NPN output | |
| Power supply voltage | - | - | | 4.5 to 28 VDC | |
| Load voltage | 85 to 265 VAC | 10 to 30 VDC | | 30 VDC or less | 30 VDC or less |
| Load current | 5 to 100 mA | 5 to 30 mA | | 200 mA or less | 100 mA or less |
| Current consumption | - | - | | With 24 VDC (when ON) | |
| | | | | 10 mA or less | 16 mA or less |
| Internal voltage drop | 10% or less of load voltage | 4 V or less | | 0.5 V or less with 150 mA | 0.5 V or less |
| Indicator lamp | Red LED (Lit when ON) | | Red/green LED (Lit when ON) | Red LED (Lit when ON) | Red/green LED (Lit when ON) |
| Leakage current | 1 mA or less with 100 VAC, 2 mA or less with 200 VAC | 1 mA or less | | 10 µA or less | |
| Lead wire length | 1 m (oil resistant vinyl cabtyre cable 2-conductor 0.3 mm ²) | | | 1 m (oil resistant vinyl cabtyre cable 3-conductor 0.2 mm ²) | |
| Shock resistance | 980 m/s ² | | | | |
| Insulation resistance | 20 MΩ and over with 500 VDC megger | | | | |
| Withstand voltage | No failure after 1 minute of 1,500 VAC application. | No failure after 1 minute of 1,000 VAC application. | | | |
| Ambient temperature | -10 (14°F) to +60°C (140°F) | | | | |
| Degree of protection | Grommet type: IEC standards IP67, JIS C0920 (water-tight), oil resistance | | | | |
| Option | Terminal box R*A (IP64), terminal box R*B (not waterproof) | | | | |
| Weight | 1 m:42 g 3 m:100 g 5 m:158 g | 1 m:56 g 3 m:114 g 5 m:172 g | 1 m:42 g 3 m:100 g 5 m:158 g | 1 m:56 g 3 m:114 g 5 m:172 g | |

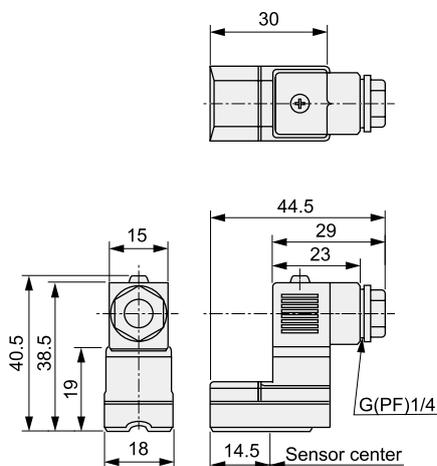
| Descriptions | Reed 2-wire | | | | | | | | |
|-------------------------------|---|------------|------------|---|--------------|---|---------------|---------------|---|
| | R0 | | | R4 | | R5 | | | R6 |
| Applications | For relay, programmable controller | | | For high capacity relay, solenoid valve | | For programmable controller, relay IC circuit (without indicator lamp), serial connection | | | Dedicated for programmable controller (with DC self-hold) |
| Power supply voltage | - | | | - | | - | | | - |
| Load voltage | 12/24 VDC | 110 VAC | 220 VAC | 110 VAC | 220 VAC | 5/12/24 VDC | 110 VAC | 220 VAC | 24 VDC ±10% |
| Load current | 5 to 50 mA | 7 to 20 mA | 7 to 10 mA | 20 to 200 mA | 10 to 200 mA | 50 mA or less | 20 mA or less | 10 mA or less | 5 to 50 mA |
| Current consumption | - | | | - | | - | | | - |
| Internal voltage drop | 3.0 V or less | | | 2 V or less | | 0.5 V or less (*1) | | | 5 V or less |
| Indicator lamp | Red LED (Lit when ON) | | | Neon light OFF (Lit when OFF) | | None | | | Red LED (Lit when ON) |
| Leakage current | 0 mA | | | 1 mA or less | | 0 mA | | | 0.1 mA or less |
| Lead wire length | 1 m (oil resistant vinyl cabtyre cable 2-conductor 0.3 mm ²) | | | | | | | | |
| Shock resistance | 294 m/s ² | | | | | | | | |
| Insulation resistance | 20 MΩ and over with 500 VDC megger | | | | | | | | |
| Withstand voltage | No failure after 1 minute of 1,500 VAC application. | | | | | | | | |
| Ambient temperature | -10 (14°F) to +60°C (140°F) | | | | | | | | |
| Degree of protection | Grommet type: IEC standards IP67, JIS C0920 (water-tight), oil resistance | | | | | | | | |
| Contact protection circuit *2 | Yes | | | | | | | None | |
| Option | Terminal box R*A (IP64), terminal box R*B (not waterproof) | | | | | | | | |
| Weight | 1 m:42 g 3 m:100 g 5 m:158 g | | | | | | | | |

Dimensions

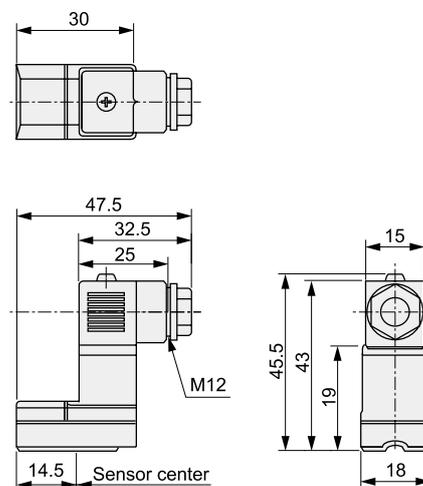
● R Series (grommet)



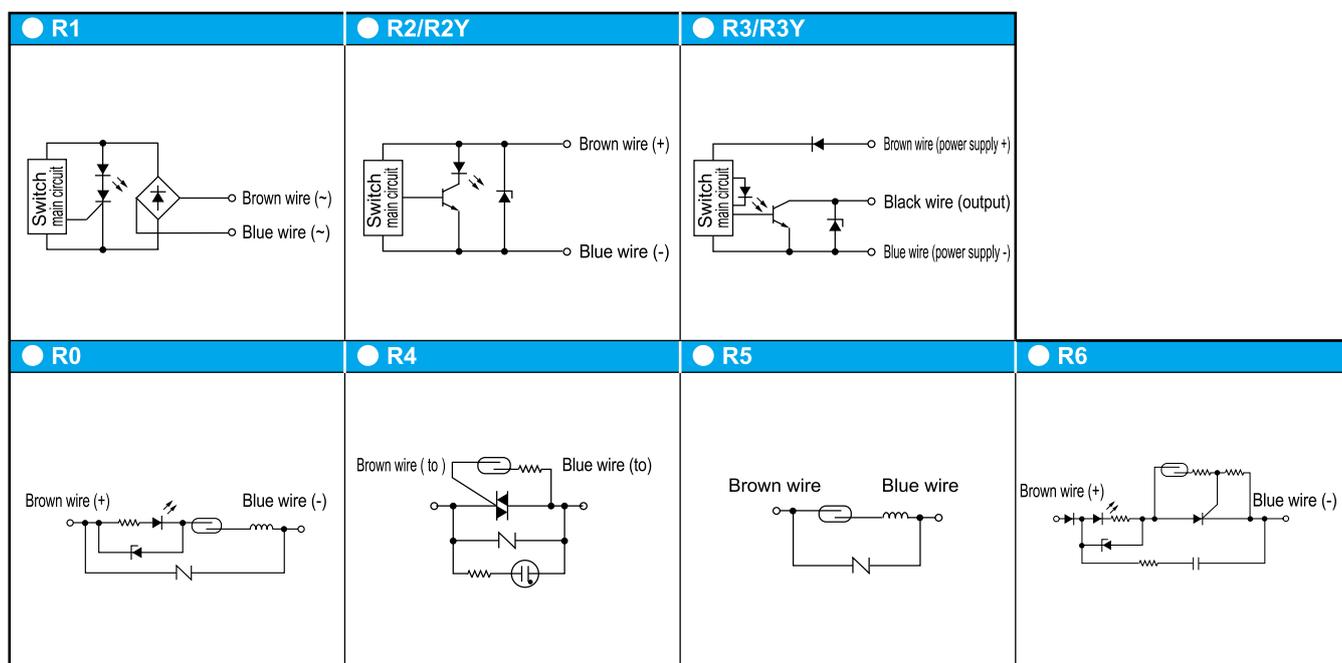
● R Series (terminal box R*B)



● R Series (terminal box R*A type)



Switch internal circuit diagram



Cylinder switch