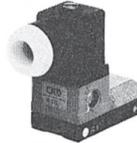


R Series	Applicable cylinder	GLC HCA MFC SHC
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R*/R*Y



R*B

Specifications

Item	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*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

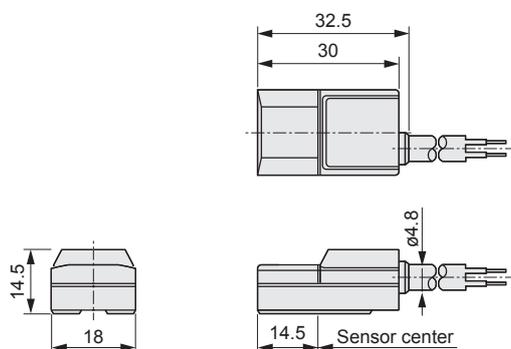
Item	Reed 2-wire								
	R0			R4		R5			R6
Applications	For relay, programmable controller			For high capacity relay, solenoid valve		For programmable controller, relay IC circuit (without indicator lamp), serial connection			Dedicated for programmable controller (with DC self-hold)
Power supply voltage	-			-		-			-
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*B (not waterproof)								
Weight	1 m:42 g 3 m:100 g 5 m:158 g								

*1: Internal resistance 10 Ω or less.

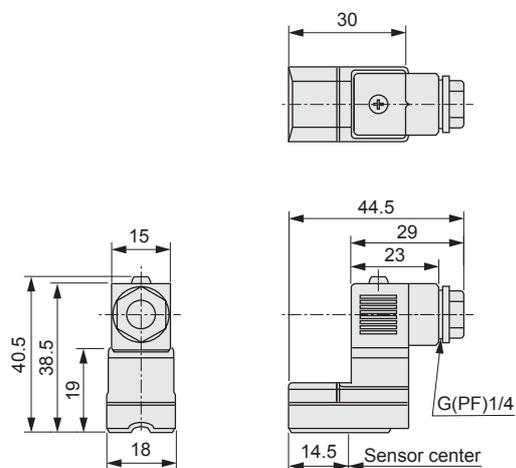
*2: Refer to Intro Page 80 for contact protective measures.

Dimensions

● R Series (grommet)



● R Series (terminal box R*B)



Switch internal circuit diagram

● R1	● R2/R2Y	● R3/R3Y	
● R0	● R4	● R5	● R6

Cylinder switch