

R Series	Applicable Cylinder	GLC, HCA, MFC, SHC
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Specifications

Item	Solid state 2-wire type			Solid state 3-wire type	
	R1, R1K	R2, R2K	R2Y, R2YK (2-color indicator type)	R3, R3K	R3Y, R3YK (2-color indicator type)
Applications	Programmable controller, Relay, Small solenoid valve	For programmable controller only		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	-			At 24 VDC (When ON)	
Internal voltage drop	10% or less of load voltage	4 V or less		0.5 V or less at 150 mA	0.5 V or less
Indicator Lamp	Red LED (Lights up when ON)		Red/Green LED (Lights up when ON)	Red LED (Lights up when ON)	Red/Green LED (Lights up when ON)
Leakage current	1 mA or less at 100 VAC, 2 mA or less at 200 VAC	1 mA or less		10 µA or less	
Lead wire length	1 m (Oil-resistant vinyl cabtyre cord 2-core 0.3 mm <sup>2</sup> )			1 m (Oil-resistant vinyl cabtyre cord 3-core 0.2 mm <sup>2</sup> )	
Shock resistance	980 m/s <sup>2</sup>				
Insulation resistance	20 MΩ or more with 500 VDC megger				
Dielectric strength	No abnormality when 1500 VAC is applied for 1 minute	No abnormality when 1000 VAC is applied for 1 minute			
Ambient Temperature	-10 to +60°C				
Protection structure	Grommet type is IEC standard IP67, JIS C0920 (Immersible type)				
Option	With 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

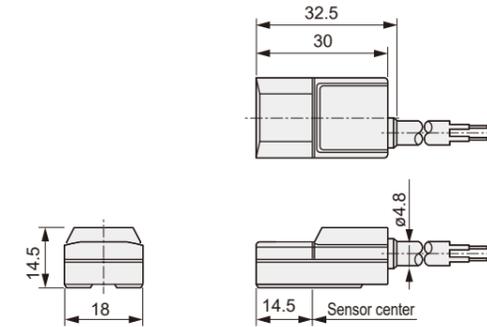
Item	Reed 2-wire type							
	R0		R4		R5		R6	
Applications	For relay, programmable controller		For high capacity relay, solenoid valve		For programmable controller, relay, IC circuit (no indicator light), series connection		For programmable controller only (With DC self-holding function)	
Power supply voltage	-		-		-		-	
Load voltage	12/24 VDC	110 VAC	220 VAC	110 VAC	220 VAC	5/12/24 VDC	110 VAC	220 VAC
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
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 (Lights up when ON)		Neon lamp OFF (Lights up when OFF)		None		Red LED (Lights up 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 cord 2-core 0.3 mm <sup>2</sup> )							
Shock resistance	294 m/s <sup>2</sup>							
Insulation resistance	20 MΩ or more with 500 VDC megger							
Dielectric strength	No abnormality when 1500 VAC is applied for 1 minute							
Ambient Temperature	-10 to +60°C							
Protection structure	Grommet type is IEC standard IP67, JIS C0920 (Immersible type)							
Contact protection circuit *2	Yes				None			
Option	With terminal box R*B (Not waterproof)							
Weight	1 m: 42 g		3 m: 100 g		5 m: 158 g			

\*1: Internal resistance 10Ω or less  
\*2: For contact protection measures, see P. 1026.

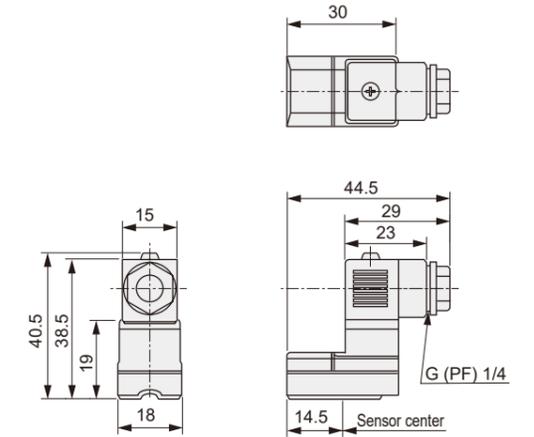
External dimension diagram / Switch internal circuit diagram

Outline Dimension Drawing

●R Series (Grommet Type)



●R Series (Terminal box R diamond type)



Switch internal circuit diagram

