

R Series

Applicable cylinder

GLC HCA MFC SHC

(excluding R1 and R4)







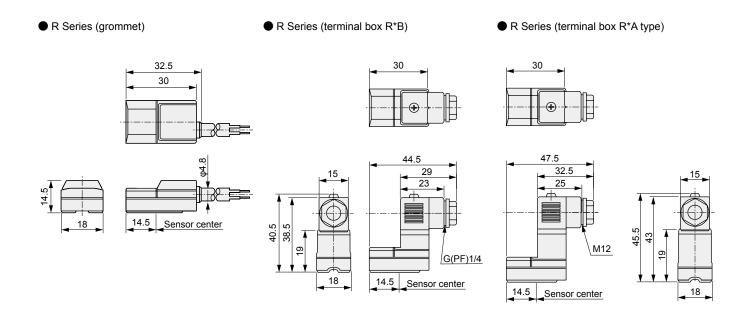
Specifications

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,	Dadicated for proc	rommable controller	For programmable controller, relay,				
	relay, compact solenoid valve	Dedicated for prog	rammable controller	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 (L	t when ON)	nen 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,	1 m A	or less	10 μA or less				
	2 mA or less with 200 VAC	TIIIA	Of less					
Lead wire length	1 m (oil resistant	vinyl cabtyre cable 2-conductor 0.3 mm²) 1 m (oil resistant vinyl cabtyre cable 3-conduct						
Shock resistance	980 m/s ²							
Insulation resistance	20 MΩ and over with 500 VDC megger							
Withstand voltage	No failure after 1 minute	nute No failure after 1 minute of 1 000 VAC application						
	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:1	00 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,		For high capacity relay,		For programmable controller, relay IC circuit		relay IC circuit	Dedicated for programmable		
	programmable controller		solenoid valve		(without indicator lamp), serial connection		al connection	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)		(*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 mm²)									
Shock resistance	294 m/s ²									
Insulation resistance	$20~\text{M}\Omega$ 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									

^{*1:} Internal resistance 10 Ω or less. *2: Refer to Intro Page 80 for contact protective measures.

Dimensions



Switch internal circuit diagram

