

	10mm	10mm	15mm	15mm
				
Min. Target Size	D=2.5mm; L=4mm	D=3mm; L=6mm	D=6mm; L=12mm	D=9mm; L=18mm
Operating Voltage & Ripple	10-60 VDC (Ripple ≤ 10%)	10-30 VDC (Ripple ≤ 10%)	10-60 VDC (Ripple ≤ 10%)	10-30 VDC (Ripple ≤ 10%)
No Load Current	≤1.8mA	≤15mA	≤1.8mA	≤15mA
Max. Load Current	≤100mA	≤200mA	≤100mA	≤200mA
Leakage Current	≤1.8mA	≤10μA	≤1.8mA	≤10μA
Min. Load Current	3mA	-	3mA	-
Voltage Drop	<8 VAC at 400mA	≤1.5V at 200mA	<6V at 100mA	≤1.5V at 200mA
Overload Trip Point	120-150mA	220-280mA	120-150mA	220-280mA
Switching Frequency	2KHz		1.5KHz	
Surge Current	-			
Min. Time Between Objects	-			
Pulse Duration	-			
Switching Hysteresis	15%			
Repeat Accuracy	≤ 2% of rated operating distance			
Protection Category	IP67			
Operating Temperature	-25°C - +70°C			
Temperature Drift	±10% (sr)			
Reverse Polarity Protection	Yes			
Short Circuit Protection	Yes			
EMC	RFI>3V/m / EFT>1KV / ESD>4KV (contact)			
Shock / Vibration	IEC 60947-5-2, Part 7.4.1 & Part 7.4.2			
Housing Material				
Part Numbers				
DC 3 wire 10-30V NPN N.O.		RRP2-R1020N-ARU4		RRP2-R1520N-ARU4
DC 3 wire 10-30V NPN N.C.		RRP2-R1020N-BRU4		RRP2-R1520N-BRU4
DC 3 wire 10-30V PNP N.O.		RRP2-R1020P-ARU4		RRP2-R1520P-ARU4
DC 3 wire 10-30V PNP N.C.		RRP2-R1020P-BRU4		RRP2-R1520P-BRU4
DC 4 wire 10-30V Changeover NPN		RRP2-R1020N-SRU4		RRP2-R1520N-SRU4
DC 4 wire 10-30V Changeover PNP		RRP2-R1020P-SRU4		RRP2-R1520P-SRU4
DC 2 wire 10-60V N.O.	RRP2-R1020C-ARU4		RRP2-R1520C-ARU4	
DC 2 wire 10-60V N.C.	RRP2-R1020C-BRU4		RRP2-R1520C-BRU4	
AC 2 wire 20-250V N.O.				
AC 2 wire 20-250V N.C.				
Diagrams (units in mm)				
				