

	M12		M18		M30	
						
Sensing Distance	1-4mm adjustable	1-8mm adjustable	2-8mm adjustable	2-15mm adjustable	2-20mm adjustable	2-30mm adjustable
Operating Voltage	10-30 VDC		10-30 VDC		10-30 VDC	
Ripple	<10%		<10%		<10%	
No Load Current	<10mA		<10mA		<10mA	
Max. Load Current	200mA		300mA		300mA	
Leakage Current	0.01mA		0.01mA		0.01mA	
Surge Current	-		-		-	
Min. Load Current	-		-		-	
Voltage Drop	<2 VDC		<2 VDC		<2 VDC	
Switching Frequency	100Hz		100Hz		100Hz	
Response Time	1.5ms/1.5ms		1.5ms/1.5ms		1.5ms/1.5ms	
Switching Hysteresis	<15% (Sr)		<15% (Sr)		<15% (Sr)	
Repeat Accuracy	<5% (Sr)		<5% (Sr)		<5% (Sr)	
Protection Category	IP67		IP67		IP67	
Operating Temperature	-25°C-+70°C		-25°C-+70°C		-25°C-+70°C	
Temperature Drift	<10% (Sr)		<10% (Sr)		<10% (Sr)	
Short Circuit Protection	Yes		Yes		Yes	
Overload Trip Point	220mA		350mA		220mA	
Time Delay Before Availability	<25ms		<25ms		<25ms	
EMC	RFI>3V/m / EFT>1KV / ESD>4KV (Contact)		RFI>3V/m / EFT>1KV / ESD>4KV (Contact)		RFI>3V/m / EFT>1KV / ESD>4KV (Contact)	
Shock / Vibration	IEC 60947-5-2, Part 7.4.1 & Part 7.4.2		IEC 60947-5-2, Part 7.4.1 & Part 7.4.2		IEC 60947-5-2, Part 7.4.1 & Part 7.4.2	
Active Face Material	PBT		PBT		PBT	
Housing Material	Chrome-plated Brass		Chrome-plated Brass		Chrome-plated Brass	
Part Numbers						
DC 3 wire 10-30V NPN N.O.	CCM1-1204N-A3U2	CCM2-1208N-A3U2	CCM1-1808N-A3U2	CCM2-1815N-A3U2	CCM1-3020N-A3U2	CCM2-3030N-A3U2
DC 3 wire 10-30V NPN N.C.	CCM1-1204N-B3U2	CCM2-1208N-B3U2	CCM1-1808N-B3U2	CCM2-1815N-B3U2	CCM1-3020N-B3U2	CCM2-3030N-B3U2
DC 3 wire 10-30V PNP N.O.	CCM1-1204P-A3U2	CCM2-1208P-A3U2	CCM1-1808P-A3U2	CCM2-1815P-A3U2	CCM1-3020P-A3U2	CCM2-3030P-A3U2
DC 3 wire 10-30V PNP N.C.	CCM1-1204P-B3U2	CCM2-1208P-B3U2	CCM1-1808P-B3U2	CCM2-1815P-B3U2	CCM1-3020P-B3U2	CCM2-3030P-B3U2
DC 4 wire 10-30V NPN (N.O. & N.C.)			CCM1-1808N-S4U2	CCM2-1815N-S4U2	CCM1-3020N-S4U2	CCM2-3030N-S4U2
DC 4 wire 10-30V PNP (N.O. & N.C.)			CCM1-1808P-S4U2	CCM2-1815P-S4U2	CCM1-3020P-S4U2	CCM2-3030P-S4U2
Diagrams (Units in mm)						
						