

	M12	M12	M12	M12
				
Sensing Distance	2 mm	4 mm	2 mm	4 mm
Operating Voltage	10-30 VDC or 10-60 VDC or 5-36 VDC			
Ripple	<10%			
No Load Current	<10mA			
Max. Load Current	200mA			
Leakage Current	<0.01mA			
Surge Current	-			
Min. Load Current	-			
Voltage Drop	<1.5V (10-30V) or <1.0V (5-36V)			
Switching Frequency	2 KHz	1 KHz	2 KHz	1 KHz
Response Time	0.1ms/0.1ms	0.2ms/0.2ms	0.1ms/0.1ms	0.2ms/0.2ms
Switching Hysteresis	<15% (Sr)			
Repeat Accuracy	<1.0% (Sr)			
Protection Category	IP67			
Operating Temperature	-25°C - +70°C			
Temperature Drift	<10% (Sr)			
Short Circuit Protection	Yes			
Overload Trip Point	220mA			
Time Delay Before Availability	<10ms			
Shock / Vibration	IEC 60947-5-2, Part 7.4.1 & 7.4.2			
Material Active Face	POM			
Housing Material	Chrome-plated Brass			
Part Numbers	Shielded	Unshielded	Shielded	Unshielded
DC 3 wire 10-30V NPN N.O.	FCM1-1202N-ARU4	FCM2-1204N-ARU4	FCM1-1202N-ARS4	FCM2-1204N-ARS4
DC 3 wire 10-30V NPN N.C.	FCM1-1202N-BRU4	FCM2-1204N-BRU4	FCM1-1202N-BRS4	FCM2-1204N-BRS4
DC 3 wire 10-30V PNP N.O.	FCM1-1202P-ARU4	FCM2-1204P-ARU4	FCM1-1202P-ARS4	FCM2-1204P-ARS4
DC 3 wire 10-30V PNP N.C.	FCM1-1202P-BRU4	FCM2-1204P-BRU4	FCM1-1202P-BRS4	FCM2-1204P-BRS4
DC 4 wire 10-30V Changeover NPN	FCM1-1202N-SRU4	FCM2-1204N-SRU4	FCM1-1202N-SRS4	FCM2-1204N-SRS4
DC 4 wire 10-30V Changeover PNP	FCM1-1202P-SRU4	FCM2-1204P-SRU4	FCM1-1202P-SRS4	FCM2-1204P-SRS4
DC 2 wire 10-60V N.O.	FCM1-1202C-ARU4	FCM2-1204C-ARU4	FCM1-1202C-ARS4	FCM2-1204C-ARS4
DC 2 wire 10-60V N.C.	FCM1-1202C-BRU4	FCM2-1204C-BRU4	FCM1-1202C-BRS4	FCM2-1204C-BRS4
DC 3 wire 5-36V NPN N.O.	ICM1-1202N-ARU4	ICM2-1204N-ARU4	ICM1-1202N-ARS4	ICM2-1204N-ARS4
DC 3 wire 5-36V NPN N.C.	ICM1-1202N-BRU4	ICM2-1204N-BRU4	ICM1-1202N-BRS4	ICM2-1204N-BRS4
DC 3 wire 5-36V PNP N.O.	ICM1-1202P-ARU4	ICM2-1204P-ARU4	ICM1-1202P-ARS4	ICM2-1204P-ARS4
DC 3 wire 5-36V PNP N.C.	ICM1-1202P-BRU4	ICM2-1204P-BRU4	ICM1-1202P-BRS4	ICM2-1204P-BRS4
DC 4 wire 5-36V Changeover NPN	ICM1-1202N-SRU4	ICM2-1204N-SRU4	ICM1-1202N-SRS4	ICM2-1204N-SRS4
DC 4 wire 5-36V Changeover PNP	ICM1-1202P-SRU4	ICM2-1204P-SRU4	ICM1-1202P-SRS4	ICM2-1204P-SRS4
Diagrams (units in mm)				
				
				