







	ø8	ø8	M8	M8	M8	M8
						
Sensing Distance	1 mm, 1.5 mm	2 mm, 2.5 mm	1mm, 1.5mm	2 mm, 2.5mm	1mm, 1.5mm	2 mm, 2.5mm
Operating Voltage	10-30 VDC or 5-36 VDC or 10-60 VDC			10-30 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					
Response Time	0.1ms/0.1ms					
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	Stainless Steel					
Part Numbers	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded
DC 3 wire 10-30V NPN N.O.	FCU1-D0801N-A3U2	FCU2-D0802N-A3U2	FCU1-0801N-A3U2	FCU2-0802N-A3U2	FCU1-0801N-A3S2	FCU2-0802N-A3S2
DC 3 wire 10-30V NPN N.C.	FCU1-D0801N-B3U2	FCU2-D0802N-B3U2	FCU1-0801N-B3U2	FCU2-0802N-B3U2	FCU1-0801N-B3S2	FCU2-0802N-B3S2
DC 3 wire 10-30V PNP N.O.	FCU1-D0801P-A3U2	FCU2-D0802P-A3U2	FCU1-0801P-A3U2	FCU2-0802P-A3U2	FCU1-0801P-A3S2	FCU2-0802P-A3S2
DC 3 wire 10-30V PNP N.C.	FCU1-D0801P-B3U2	FCU2-D0802P-B3U2	FCU1-0801P-B3U2	FCU2-0802P-B3U2	FCU1-0801P-B3S2	FCU2-0802P-B3S2
DC 4 wire 10-30V Changeover NPN						
DC 4 wire 10-30V Changeover PNP						
DC 2 wire 10-60V N.O.	FCU1-D0801C-A2U2	FCU2-D0802C-A2U2	FCU1-0801C-A2U2	FCU2-0802C-A2U2		
DC 2 wire 10-60V N.C.	FCU1-D0801C-B2U2	FCU2-D0802C-B2U2	FCU1-0801C-B2U2	FCU2-0802C-B2U2		
DC 3 wire 5-36V NPN N.O.	ICU1-D081.5N-A3U2	ICU2-D082.5N-A3U2	ICU1-081.5N-A3U2	ICU2-082.5N-A3U2	ICU1-081.5N-A3S2	ICU2-082.5N-A3S2
DC 3 wire 5-36V NPN N.C.	ICU1-D081.5N-B3U2	ICU2-D082.5N-B3U2	ICU1-081.5N-B3U2	ICU2-082.5N-B3U2	ICU1-081.5N-B3S2	ICU2-082.5N-B3S2
DC 3 wire 5-36V PNP N.O.	ICU1-D081.5P-A3U2	ICU2-D082.5P-A3U2	ICU1-081.5P-A3U2	ICU2-082.5P-A3U2	ICU1-081.5P-A3S2	ICU2-082.5P-A3S2
DC 3 wire 5-36V PNP N.C.	ICU1-D081.5P-B3U2	ICU2-D082.5P-B3U2	ICU1-081.5P-B3U2	ICU2-082.5P-B3U2	ICU1-081.5P-B3S2	ICU2-082.5P-B3S2
DC 4 wire 5-36V Changeover NPN						
DC 4 wire 5-36V Changeover PNP						
Diagrams (units in mm)	