

proSense® CE1 Series Capacitive Proximity Sensors



M8 (8mm) Stainless Steel – DC

- Sensitivity adjustment via potentiometer (adjustment tool included with each sensor)
- IP65 rated
- LED status indicators
- M8 quick-disconnect (purchase cable separately), or cabled models



ProSense CE1 Series Capacitive Proximity Sensors Selection Chart								
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring	Drawing Link
CE1-AP-1A		1.5 mm [0.06 in]	Flush	N.O.	PNP	3-wire cable, 2m [6.56 ft]	Diagram 1	PDF
CE1-CP-1A		1.5 mm [0.06 in]	Flush	N.C.	PNP	3-wire cable, 2m [6.56 ft]	Diagram 1	PDF
CE1-AN-1A		1.5 mm [0.06 in]	Flush	N.O.	NPN	3-wire cable, 2m [6.56 ft]	Diagram 2	PDF
CE1-AP-1F		1.5 mm [0.06 in]	Flush	N.O.	PNP	M8x1, 3-pin	Diagram 1	PDF
CE1-CP-1F		1.5 mm [0.06 in]	Flush	N.C.	PNP	M8x1, 3-pin	Diagram 1	PDF
CE1-AP-2A		3mm [0.12 in]	Non-flush	N.O.	PNP	3-wire cable, 2m [6.56 ft]	Diagram 1	PDF
CE1-CP-2A		3mm [0.12 in]	Non-flush	N.C.	PNP	3-wire cable, 2m [6.56 ft]	Diagram 1	PDF
CE1-AN-2A		3mm [0.12 in]	Non-flush	N.O.	NPN	3-wire cable, 2m [6.56 ft]	Diagram 2	PDF
CE1-AP-2F		3mm [0.12 in]	Non-flush	N.O.	PNP	M8x1, 3-pin	Diagram 1	PDF
CE1-CP-2F		3mm [0.12 in]	Non-flush	N.C.	PNP	M8x1, 3-pin	Diagram 1	PDF

Wiring diagrams

Diagram 1

PNP Output

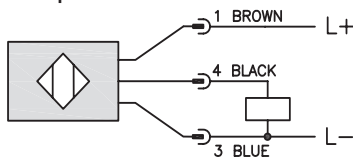
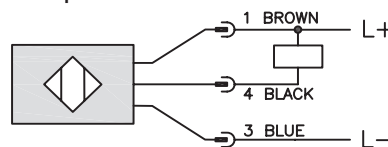
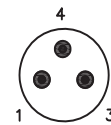


Diagram 2

NPN Output



M8 connector



Warning: These products are not safety sensors and are not suitable for use in personal safety applications.

proSense® CE1 Series Capacitive Specifications

ProSense CE1 Series Capacitive Specifications	
Nominal Sensing Distance	See Selection Table
Operating Distance	See Installation Guide
Material Correction Factors	N/A
Output Type	See Selection Table
Operating Voltage	11-30 VDC
No-load Supply Current	10mA
Operating (Load) Current	50mA
Voltage Drop	2V static max
Switching Frequency	100Hz
Hysteresis (% of Sr)	15%
Repeat Accuracy	2%
Ripple	10% max
Time Delay Before Availability (tv)	100ms
Reverse Polarity Protection	Yes
Short-circuit Protection	Yes
Operating Temperature	-10 to +70°C [+14 to +158°F]
Protection Degree (DIN 40050)	IP65
Indication/Switch Status	LED function indicator
Housing Material	Stainless steel
Sensing Face Material	PTFE (Polytetrafluoroethylene)
Shock/Vibration	IEC 60947-5-2
Tightening Torque	6 N•m [4.42 lb•ft]
Weight	Cabled Models: 58.98 g [2.08 oz] M8 Models: 31.75 g [1.11 oz]
Connections	M8x1, 3-pin, 0.30 m [0.98 ft] or cable, 2m [6.56 ft], PUR, 26 AWG (0.14 mm ²)
Agency Approvals	CE, cULus

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Accessories for 8mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
ST08A		Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	PDF	0.04



ST08A

Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-beam-angle-adaptor sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
ST08C		Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04



ST08C

Accessories for 8mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 8mm sensors.



OPT2101

Accessories for 8mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
OPT2101		Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	PDF	0.02

Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment. For use with 8mm sensors. Available in all stainless steel or with an aluminum head and stainless steel mounting plate.



OPT2112 & OPT2113

Accessories for 8mm Sensors						
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight [lb]
OPT2112		Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	PDF	0.14
OPT2113		Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 8mm sensors.	304 Stainless Steel	304 Stainless Steel	PDF	0.26

Note: 304 Stainless steel mounting rods sold separately: OPT2109 (200mm length), OPT2110 (300mm length), and OPT2111 (500mm length).