HTM electronics

New and Key Products with Stocking Inventory

WWW.HTM-SENSORS.COM

Safety Light Curtains

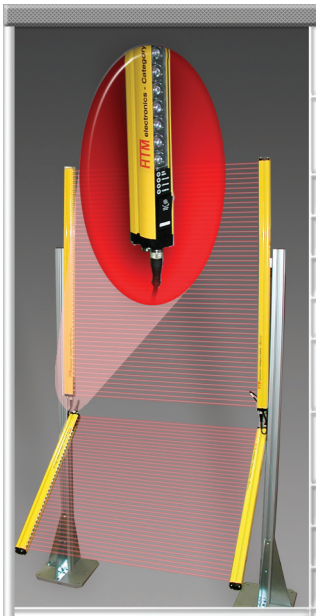
Category 2 or Category 4

Fixed Blanking

Floating Blanking

Cascadable

Selection & Ordering Information



SE4 Standard
Category 4 Standard Safety Light Curtains

Model	Beams	Protective Height	Response Time
SE4-30-060-PP-E	32	621mm (24.45 in.)	25ms
SE4-30-090-PP-E	48	915mm (36.02 in.)	30ms
SE4-30-120-PP-E	64	1209mm (47.60 in.)	35ms

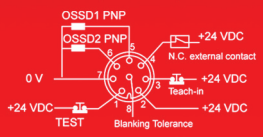
SE4 Advanced
Category 4 Safety Light Curtains With Advanced Features

Model	Beams	Protective Height	Response Time
SE4-30-060-PP-N	32	621mm (24.45 in.)	25ms
SE4-30-090-PP-N	48	915mm (36.02 in.)	30ms
SE4-30-120-PP-N	64	1209mm (47.60 in.)	35ms

4-POLE, M12 Connector (Emitter)

1 = brown = +24 VDC
2 = white = N.C.
3 = blue = 0 V
4 = black = N.C.

8-POLE M12 Connector (Receiver)

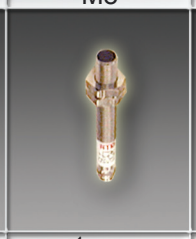
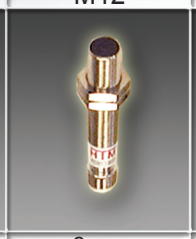
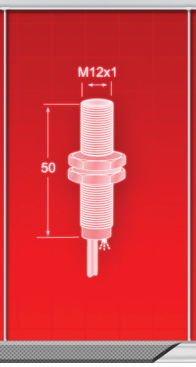
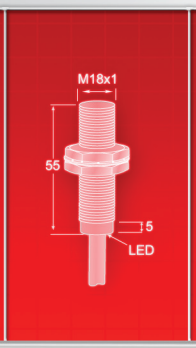
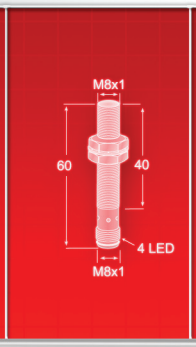
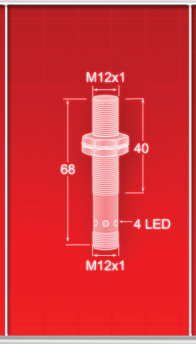
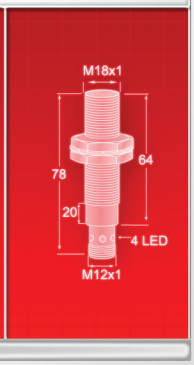


1 = white = TEST/START
2 = brown = +24 VDC
3 = green = Not Connected
4 = yellow = EDM
5 = grey = OSSD1
6 = pink = OSSD2
7 = blue = 0 V
8 = red = Not Connected

HTM electronics

Standard Proximity Sensors

Selection & Ordering Information

Type	Pre-wired			Quick Connect		
Barrel	M8	M12	M18	M8	M12	M18
						
Sensing Distance	1 mm	2 mm	5 mm	1 mm	2 mm	5 mm
Housing Material	Stainless Steel	Chrome-plated Brass		Stainless Steel	Chrome-plated Brass	
Part Numbers						
DC 3 wire 10-30V NPN N.O.	FCU1-0801N-A3U2	FCM1-1202N-A3U2	FCM1-1805N-A3U2	FCU1-0801N-ACU3	FCM1-1202N-ARU4	FCM1-1805N-ARU4
DC 3 wire 10-30V PNP N.O.	FCU1-0801P-A3U2	FCM1-1202P-A3U2	FCM1-1805P-A3U2	FCU1-0801P-ACU3	FCM1-1202P-ARU4	FCM1-1805P-ARU4
Diagrams (units in mm)						
						

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Long Range Proximity Sensors

Long Range Inductive Proximity Sensors

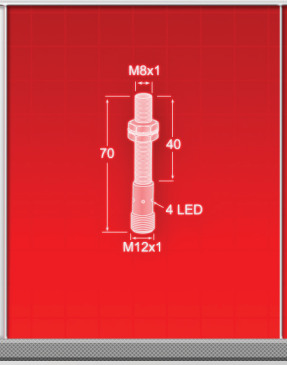
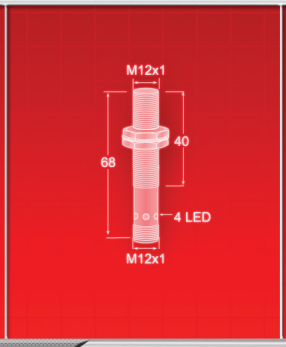
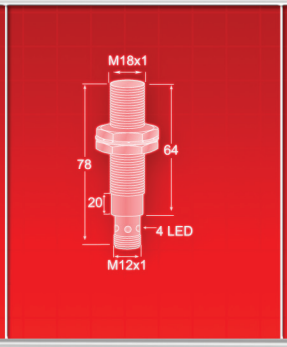
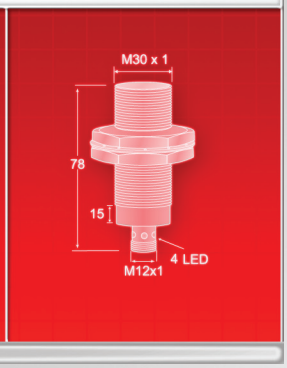
Standard vs Long Range

3x

Up to 3 Times the Sensing Range*

* Results based on normal operation of our standard M12 inductive proximity sensor compared to our M12 Long Range models.

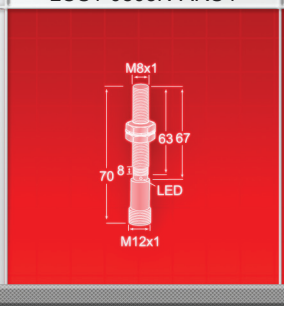
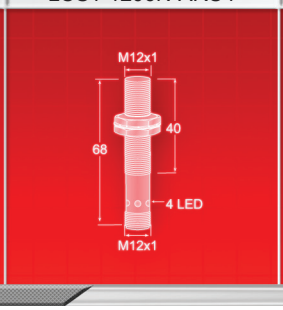
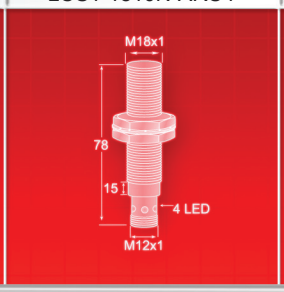
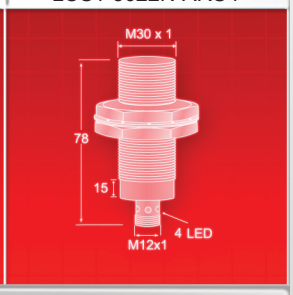
Selection & Ordering Information

Barrel	M8	M12	M18	M30
Sensing Distance	3 mm	6 mm	12 mm	22 mm
Housing Material	Chrome-plated Brass			
Part Numbers				
DC 3 wire 10-30V PNP N.O.	LCM1-0803P-ARU4	LCM1-1206P-ARU4	LCM1-1812P-ARU4	LCM1-3022P-ARU4
DC 3 wire 10-30V NPN N.O.	LCM1-0803N-ARU4	LCM1-1206N-ARU4	LCM1-1812N-ARU4	LCM1-3022N-ARU4
Diagrams (units in mm)				
				

HTM electronics

MetalHead Proximity Sensors

Selection & Ordering Information

Barrel	M8	M12	M18	M30
Standard Range	1 mm	2 mm	5 mm	10 mm
DC 3 wire 10-30V PNP N.O.	FCS1-0801P-ARU4	FCS1-1202P-ARU4	FCS1-1805P-ARU4	FCS1-3010P-ARU4
DC 3 wire 10-30V NPN N.O.	FCS1-0801N-ARU4	FCS1-1202N-ARU4	FCS1-1805N-ARU4	FCS1-3010N-ARU4
Extended Range	2 mm	4 mm	8 mm	15 mm
DC 3 wire 10-30V PNP N.O.	ECS1-0802P-ARU4	ECS1-1204P-ARU4	ECS1-1808P-ARU4	ECS1-3015P-ARU4
DC 3 wire 10-30V NPN N.O.	ECS1-0802N-ARU4	ECS1-1204N-ARU4	ECS1-1808N-ARU4	ECS1-3015N-ARU4
Long Range	3 mm	6 mm	10 mm	20 mm
DC 3 wire 10-30V PNP N.O.	LCS1-0803P-ARU4	LCS1-1206P-ARU4	LCS1-1810P-ARU4	LCS1-3022P-ARU4
DC 3 wire 10-30V NPN N.O.	LCS1-0803N-ARU4	LCS1-1206N-ARU4	LCS1-1810N-ARU4	LCS1-3022N-ARU4
				

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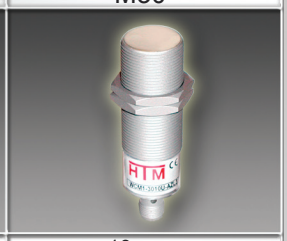
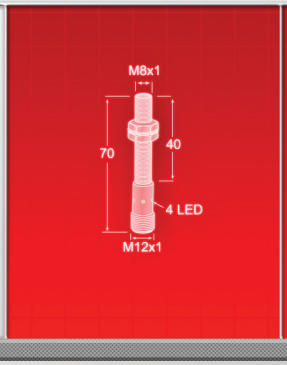
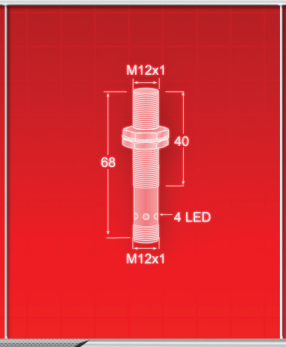
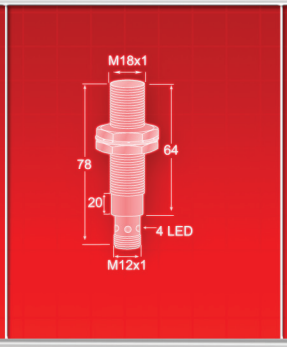
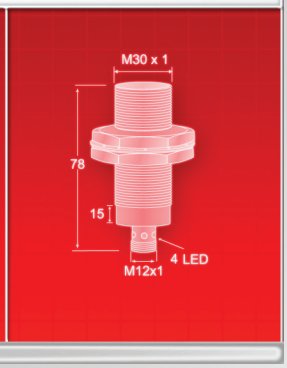
Weld Field Immune Proximity Sensors

Selection & Ordering Information

Barrel	M8	M12	M18	M30
				
Sensing Distance	1 mm	2 mm	5 mm	10 mm
Housing Material	PTFE Coated Brass			
Part Numbers				
DC 3 wire 10-30V PNP N.O.	WCM1-0801P-ARU4	WCM1-1202P-ARU4	WCM1-1812P-ARU4	WCM1-3010P-ARU4
DC 3 wire 10-30V NPN N.O.	WCM1-0801N-ARU4	WCM1-1202N-ARU4	WCM1-1812N-ARU4	WCM1-3010N-ARU4
Diagrams (units in mm)				
				

HTM electronics

SpatterGuard Proximity Sensors

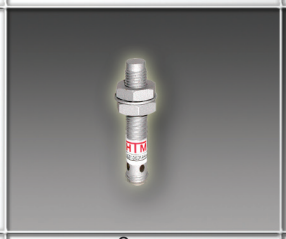
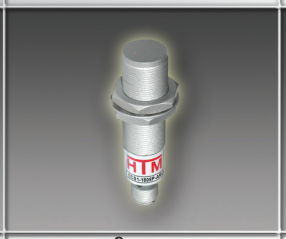
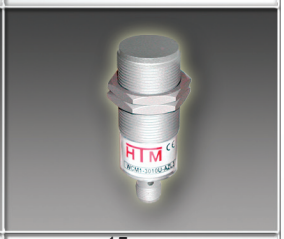
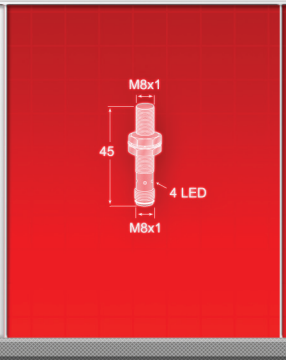
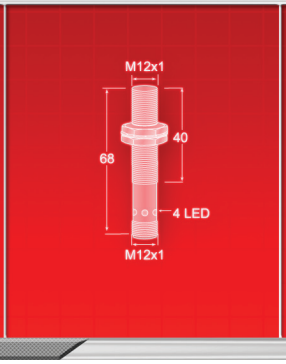
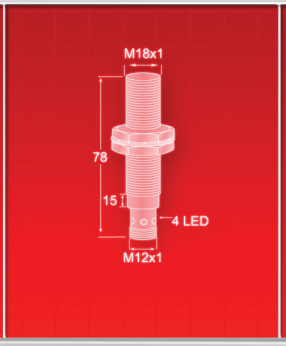
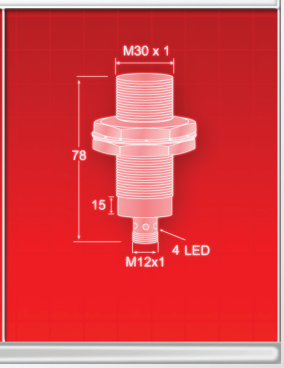
Weld Slag Build-up

Our MetalHead Proximity Sensors stand up to the harshest industrial environments

Weld Slag Resistant

Our MetalHead Proximity Sensors with SpatterGuard are just as tough, but resist slag build-up near welding applications.

Selection & Ordering Information

Barrel	M8	M12	M18	M30
				
Sensing Distance	2 mm	4 mm	8 mm	15 mm
Housing Material	PTFE Coated Stainless Steel			
Part Numbers				
DC 3 wire 10-30V PNP N.O.	ECS1-0802P-ACS3-PTFE	ECS1-1204P-ARU4-PTFE	ECS1-1808P-ARU4-PTFE	ECS1-3015P-ARU4-PTFE
DC 3 wire 10-30V NPN N.O.	ECS1-0802N-ACS3-PTFE	ECS1-1204N-ARU4-PTFE	ECS1-1808N-ARU4-PTFE	ECS1-3015N-ARU4-PTFE
Diagrams (units in mm)				
				

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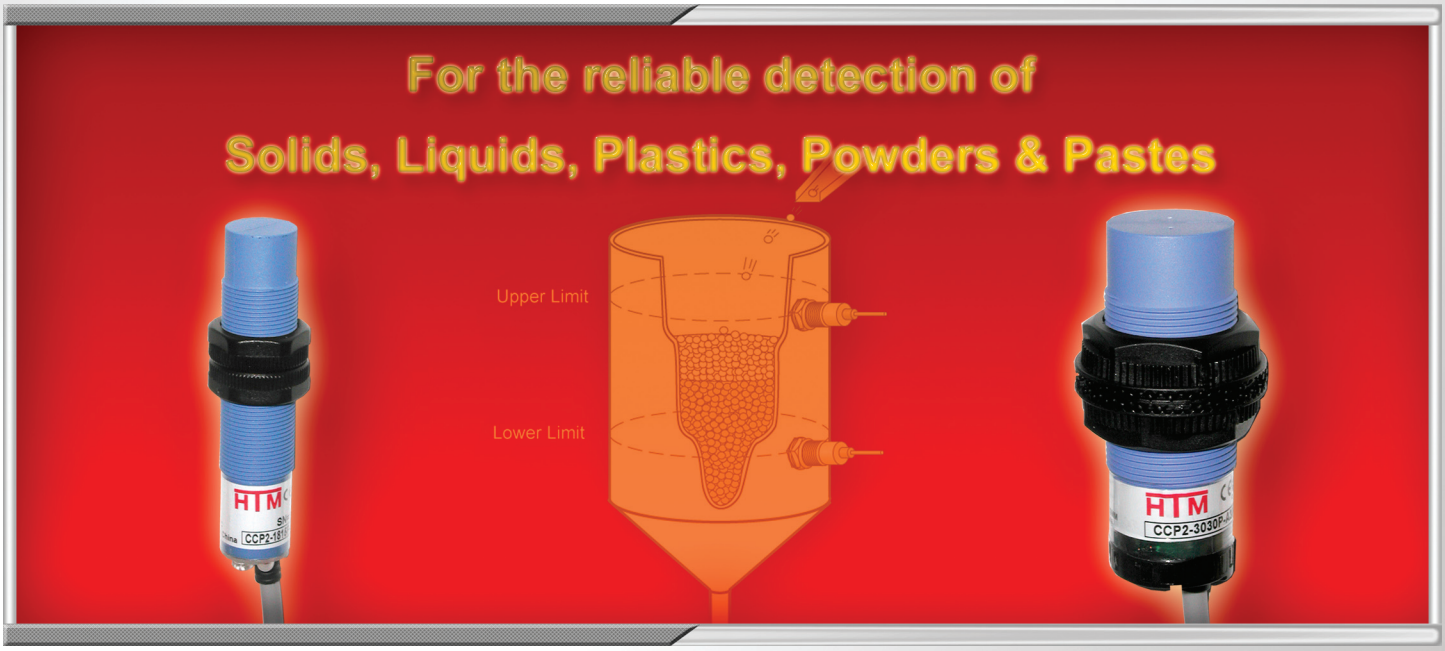
Capacitive Proximity Sensors



Selection & Ordering Information

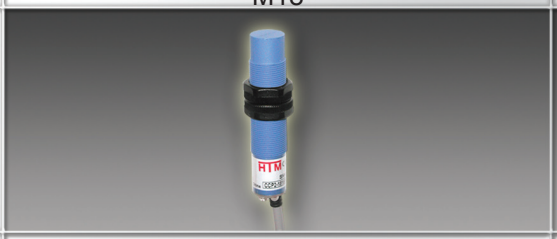
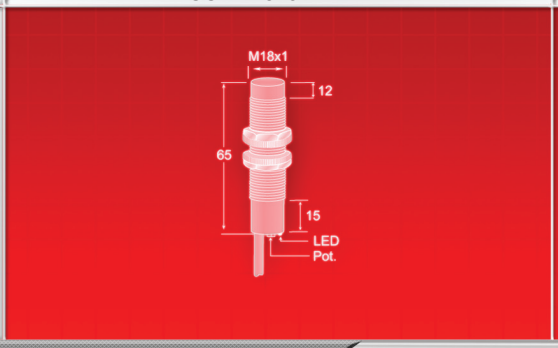
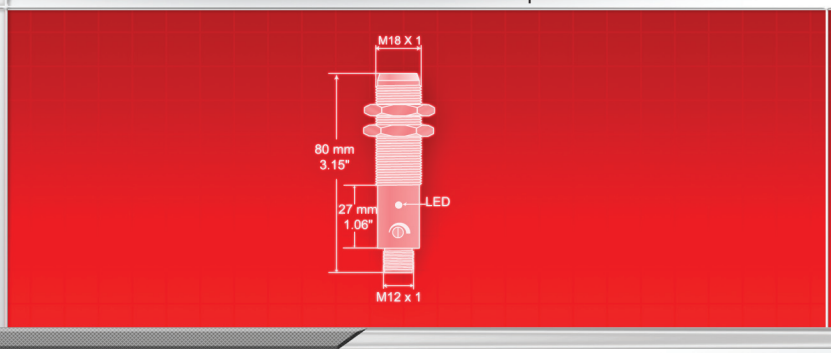
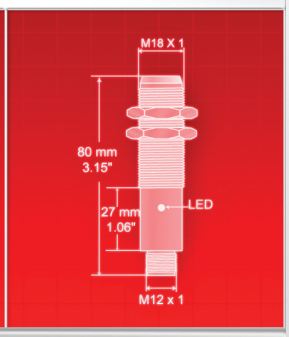
Barrel	M18	M30
		
Sensing Distance	15mm (adjustable)	30mm (adjustable)
Housing Material	PBT	PBT
Part Numbers		
DC 3 wire 10-30V NPN N.O.	CCP2-1815N-A3U2	CCP2-3030N-A3U2
DC 3 wire 10-30V PNP N.O.	CCP2-1815P-A3U2	CCP2-3030P-A3U2
AC 2 wire 20-250 VAC N.O.	CCP2-1815A-A2L2	CCP2-3030A-A2L2
		

Photo-electric Sensors

Cylindrical Photoelectrics

Selection & Ordering Information

Barrel	M18			
Part Numbers				
	Diffused	**Retroreflective**	**Through Beam**	
			Receiver	Emitter
PNP Models	M18B-D0500P-CX9Q4UE	M18B-L3000P-CX9Q4UE	M18B-T015MP-CX9Q4UE	M18B-T015MD-EX9Q4LE
NPN Models	M18B-D0500N-CX9Q4UE	M18B-L3000N-CX9Q4UE	M18B-T015MN-CX9Q4UE	M18B-T015MD-EX9Q4LE
Sensing Range	500 mm (adjustable)	3 meters	15 meters	
Housing Material	Nickel-plated Brass			
				

HTM electronics

Power Supplies

Multiple Output Terminals For Positive And Negative

2 Mounting Possibilities (DIN Rail and Panel)

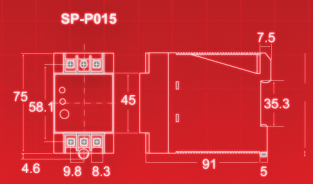
LED Lights-up To Indicate Output Voltage Drop

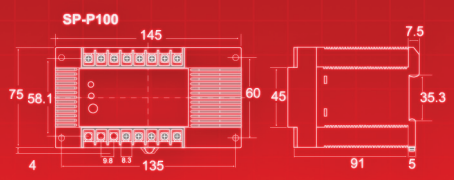
Wide Range Voltage Input (AC 110-220V)

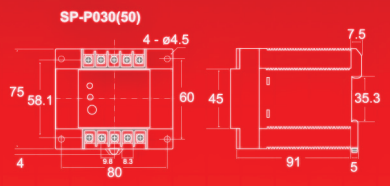
CSA & CE approvals

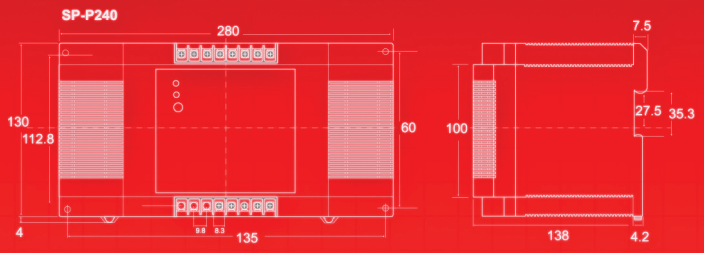
Selection & Ordering Information

Capacitiy	Output Voltage	Output Current	Model
15w	24V	0.6A	SP-P015S024P-FT
30w	12V	2.5A	SP-P030S012P-FT
	24V	1.3A	SP-P030S024P-FT
50w	24V	2.1A	SP-P050S024P-FT
100w	24V	4.2A	SP-P100S024P-FT









HTM electronics

Cables & Boxes

DC - Micro

AC - Micro

M8 - Pico

Mini

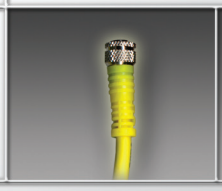
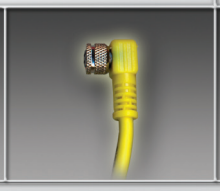
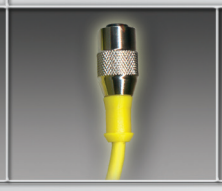
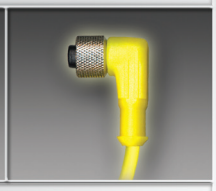
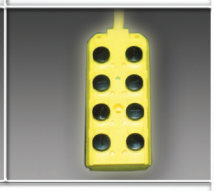
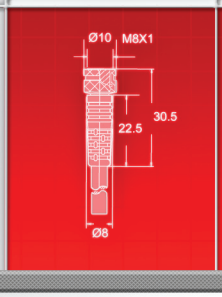
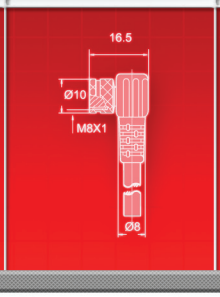
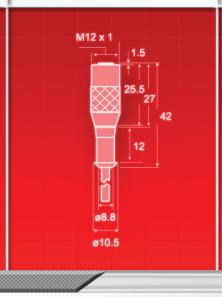
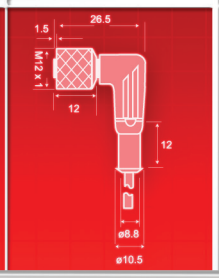
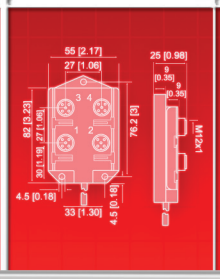
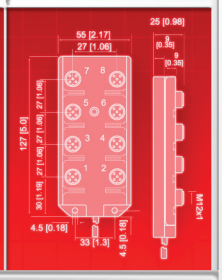
Straight & 90°

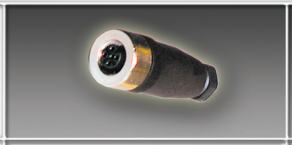
PVC & PUR

Yellow, Grey or Black

Double-ended Cables

Selection & Ordering Information

Cables					Boxes	
	C Series - M8 Pico		R Series - M12 DC Micro		4 Port	8 Port
						
Part Numbers						
3 Poles	C-FS3TZ-V075	C-FA3TZ-V075				
4 Poles	C-FS4TZ-V075	C-FA4TZ-V075	R-FS4TZ-V075	R-FA4TZ-V075		
4 Port PNP					ASTR4-5/4PA-1005	
4 Port NPN					ASTR-5/4NA-1005	
8 Port PNP						DSTR8-5/4PA-1205
8 Port NPN						DSTR8-5/4NA-1205
Diagrams						

Field Connectors				
				
Part Number	R-FS4KZPG7	R-FA4KZPG7	R-MS4KZPG7	R-MA4KZPG7
Poles	4 (female)	4 (female)	4 (male)	4 (male)
Max. Wire Section	18 AWG	18 AWG	18 AWG	18 AWG
Screw Joint for Cables	PG7 (Φ4.0-6.0mm)	PG7 (Φ4.0-6.0mm)	PG7 (Φ4.0-6.0mm)	PG7 (Φ4.0-6.0mm)

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