

# UT1 Series Ultrasonic Sensors

## M30 (30mm) plastic – Discrete or analog output

- 12-30 VDC, 15 to 30 VDC (0 to 10 VDC)
- Discrete models available with adjustable sensitivity
- Analog output models available
- Models available with analog and discrete switching outputs
- Complete overload protection
- IP67 rated
- LED status indicators
- Mounting hex nuts included
- Purchase cable for M12 plug separately
- Lifetime warranty



UT1B-E4-0E

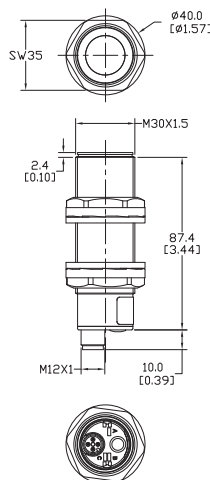


UT1B-E4-0A

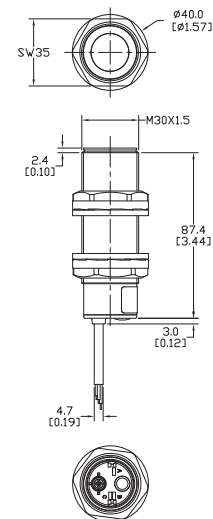
UT 1B Series Ultrasonic Discrete or Analog Output Sensor Selection Chart						
Part Number	Price	Sensing Range	Output State	Connection	Wiring	Function
UT1B-E4-0E	<--->	250 to 3500 mm (9.84 to 137.8 in)	4 to 20 mA analog output, NPN, N.O./N.C. selectable	M12 quick disconnect	Diagram 5	4
UT1B-E4-0A	<--->		4 to 20 mA analog output, NPN, N.O./N.C. selectable	2m output cable	Diagram 5	4
UT1B-E6-0E	<--->		4 to 20 mA analog output, PNP, N.O./N.C. selectable	M12 quick disconnect	Diagram 7	4
UT1B-E6-0A	<--->		4 to 20 mA analog output, PNP, N.O./N.C. selectable	2m output cable	Diagram 7	4
UT1B-E7-0E	<--->		0 to 10 VDC analog output, PNP, N.O./N.C. selectable	M12 quick disconnect	Diagram 7	4
UT1B-E7-0A	<--->		0 to 10 VDC analog output, PNP, N.O./N.C. selectable	2m output cable	Diagram 7	4
UT1B-E9-0E	<--->		0 to 10 VDC analog output, NPN, N.O./N.C. selectable	M12 quick disconnect	Diagram 5	4
UT1B-E9-0A	<--->		0 to 10 VDC analog output, NPN, N.O./N.C. selectable	2m output cable	Diagram 5	4
UT1B-EM-0E	<--->		NPN, 2 outputs, hysteresis + window functions	M12 quick disconnect	Diagram 4	5
UT1B-EM-0A	<--->		NPN, 2 outputs, hysteresis + window functions	2m output cable	Diagram 4	5
UT1B-EW-0E	<--->		PNP, 2 outputs, hysteresis + window functions	M12 quick disconnect	Diagram 6	5
UT1B-EW-0A	<--->		PNP, 2 outputs, hysteresis + window functions	2m output cable	Diagram 6	5

## Dimensions

mm [inches]



UT1 Series M12 Quick Disconnect



UT1 Series 2m Cable

# UK1/UT1 Series Ultrasonic Sensors

Specifications					
Model	UK1A	UK1C	UK1D	UK1F	UT1B
<b>Nominal Sensing Distance</b>	50 to 400 mm (1.97 to 15.75 in)	100 to 900 mm (3.94 to 35.43 in)	150 to 1600 mm (5.90 to 62.99 in)	200 to 2200 mm (7.87 to 86.61 in)	250 mm to 3500 mm (9.84 in to 137.80 in)
<b>Operating Distance (Sensing Range)</b>	100 to 400 mm (3.94 to 15.75 in)	100 to 900 mm (3.94 to 35.43 in)	150 to 1600 mm (5.90 to 62.99 in)	200 to 2200 mm (7.87 to 86.61 in)	250 mm to 3500 mm (9.84 in to 137.80 in)
<b>Output Type</b>	See "Output State" column in selection chart				
<b>Operating Voltage</b>	15 to 30 VDC				12 to 30 VDC, 15 to 30 VDC (0 to 10 VDC)
<b>No-load Supply Current</b>	≤50 mA				
<b>Operating (Load) Current</b>	100 mA				
<b>Off-state (Leakage) Current</b>	10 µA @ 30 VDC				<10 µA (VDC max)
<b>Analog Output</b>	Voltage: minimum load is 3 kOhms / Current: maximum load is 500 Ohms at 24 VDC supply				
<b>Voltage Drop</b>	2.2 volts max@ 100 mA				
<b>Switching Frequency</b>	10 Hz	4 Hz	2 Hz	1 Hz	2 Hz
<b>Repeat Accuracy</b>	0.5%				0.2%
<b>Time Delay Before Availability (tv)</b>	≤500 ms; ≤900 ms (UK1*-E5/E3-0*)				≤300 ms; <900 ms for UT1B-EM/W-0*
<b>Reverse Polarity Protection</b>	Yes				
<b>Short-Circuit Protection</b>	Yes				
<b>Linearity Error</b>	<1%				0.5%
<b>Ultrasonic Frequency</b>	400 kHz	300 kHz	230 kHz	200 kHz	112 kHz
<b>Ultrasonic Beam Angle</b>	±8°	±7°	±8°	±7°	12° ±2°
<b>Max. Response Time (digital output)</b>	50 ms	125 ms	250 ms	500 ms	250 ms
<b>Sensitivity Adjustment</b>	Yes, via teach-in button				
<b>Input Voltage Transient Protection</b>	Yes				
<b>Operating Temperature</b>	-20° to 60°C (-4° to 140°F)				-20° to +70°C (-4° to +158°F)
<b>Temperature Compensation</b>	Yes				
<b>Protection Degree</b>	IEC IP67				
<b>Indication/Switch Status</b>	Multi-function LED indicator				
<b>Housing Material</b>	Polybutylene Terephthalate (PBT)				
<b>Shock/Vibration</b>	See Terminology Section				
<b>Tightening Torque</b>	1 Nm (0.737 lb-ft)				
<b>Weight</b>	35g (1.23 oz) (plug exit) 88g (3.10 oz) (cable exit)				90g (3.17 oz) (plug exit) 160g (5.64 oz) (cable exit)
<b>Connection</b>	M12 (12 mm) connector or 2m prewired output cable				
<b>Agency Approvals</b>	CE, cULus file E187310, RoHS				

## Wiring Diagrams

Diagram 1

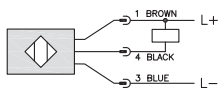


Diagram 2

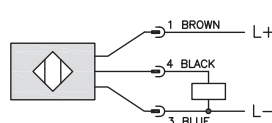


Diagram 3

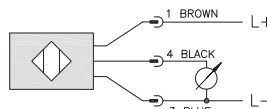


Diagram 4

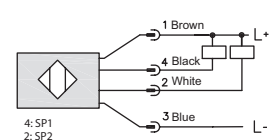


Diagram 5

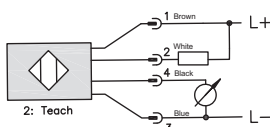


Diagram 6

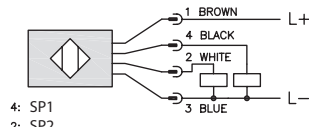
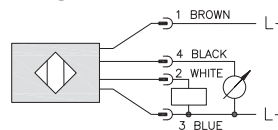
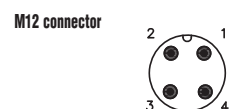


Diagram 7



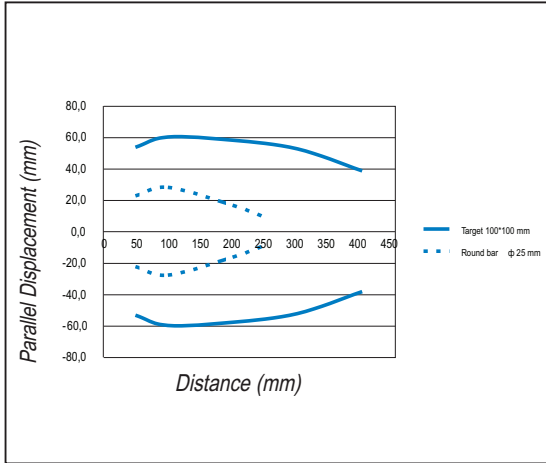
Connector



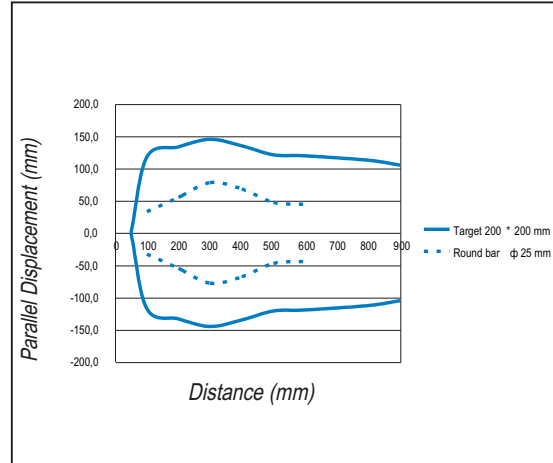
# UK1/UT1 Series Ultrasonic Sensors

## Characteristic Curves

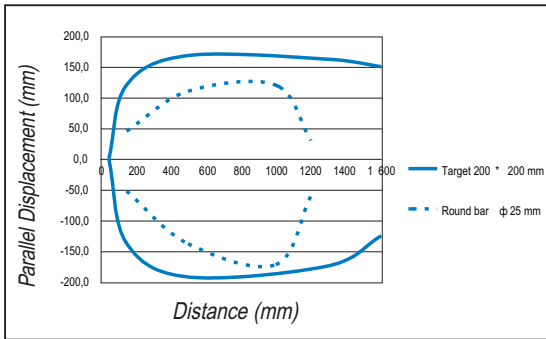
### UK1A models



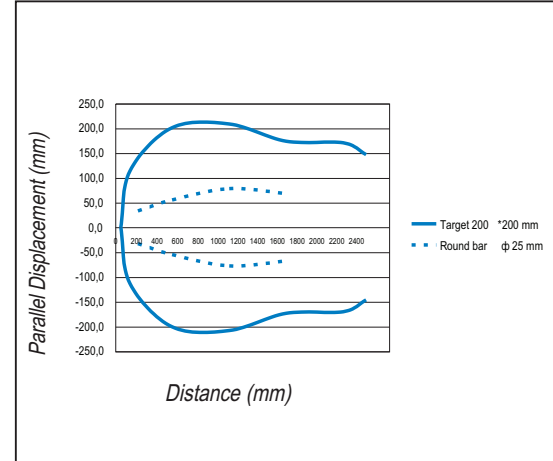
### UK1C models



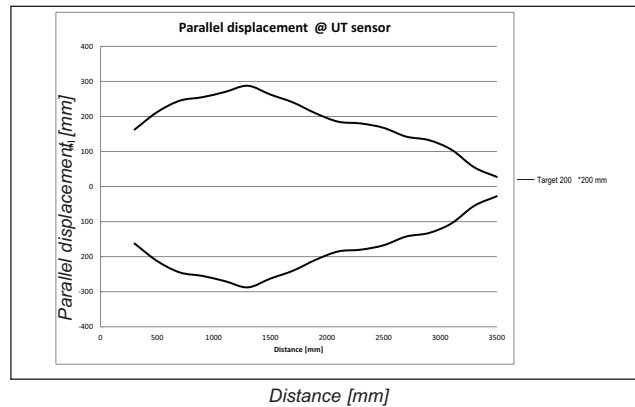
### UK1D models



### UK1F models



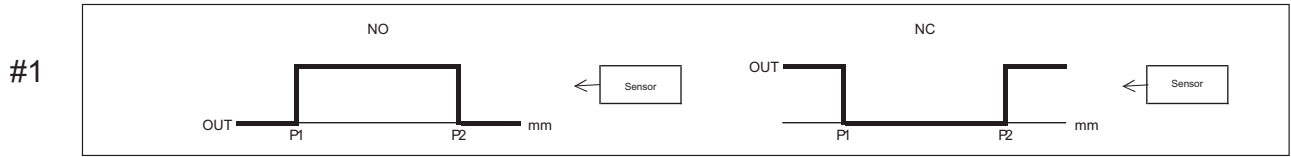
### UT1B models



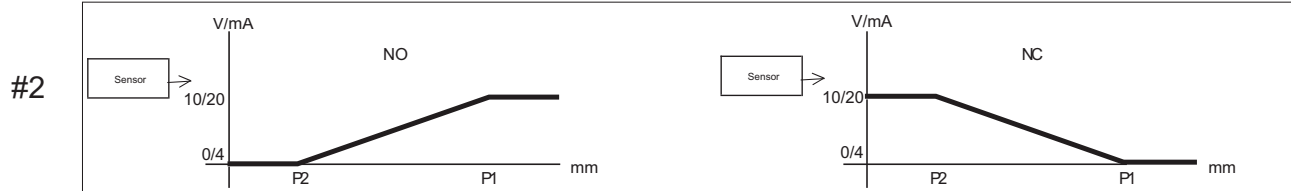
# UK1/UT1 Series Ultrasonic Sensors

## Functions

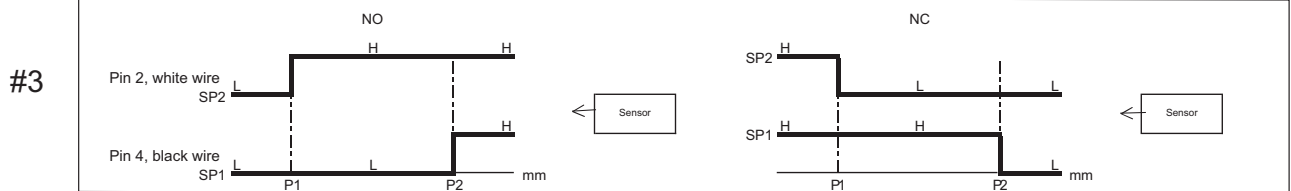
Function    Models with single digital output



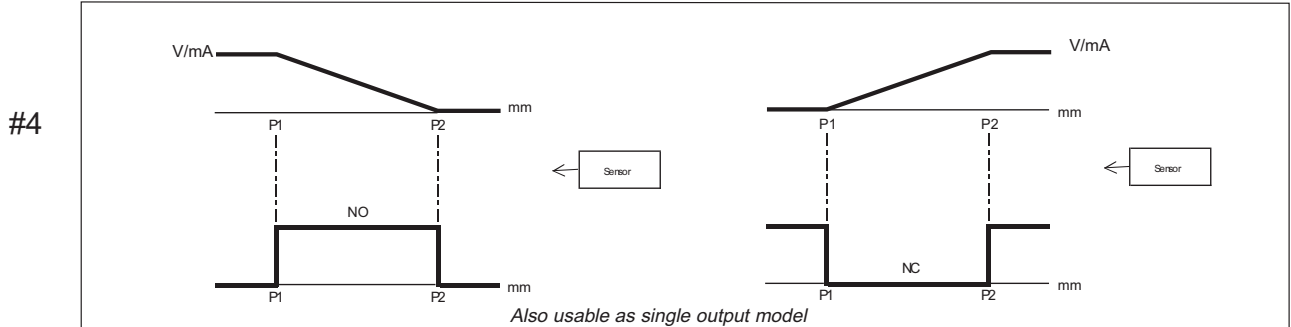
Models with single analog output



Models with double digital output

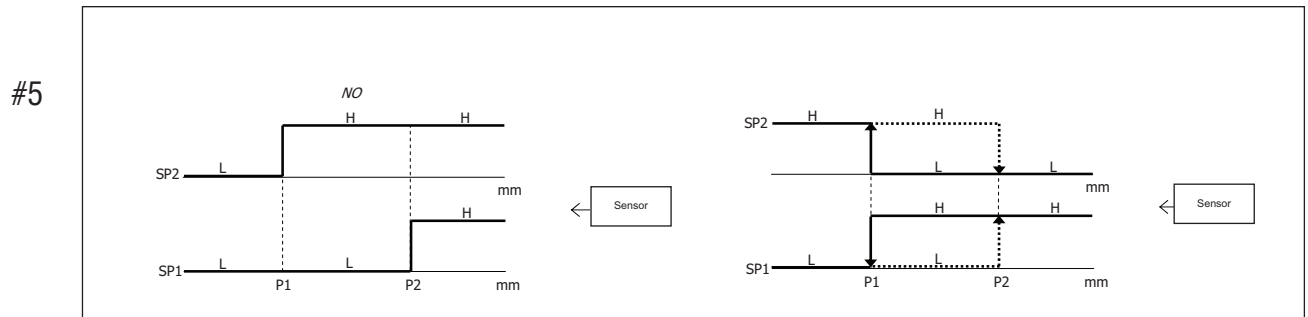


Models with digital output + analog output



**Note:** P1    maximum selected working distance and first point to select  
 P2    minimum selected working distance and second point to select

Models with double digital output, hysteresis, + standard window



# Sensor Cables and Connectors

## Cables with quick-disconnect plugs

- Industry standard axial and right-angle M8/M12 screw-lock connectors with open leads. The cables listed can be used with patch cables
- 2m, 3m, 5m, 7m, 10m and 15m cable lengths

- PVC (polyvinyl chloride) jacket for typical industrial applications
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated



**CD08-0A-020-C1 and -A1 shown**



**CD08-0A-050-C1 and -A1 shown**



**CD12L-0B-020-A0 and -C0 shown**



**CD12M-0B-050-C1 and -A1 shown**



**7000-12221-2141000**



**7000-12241-2150500**



**7000-17041-2951000**



**7000-19041-7050500**

<b>M8 Quick-Disconnect Cables (Pico, Nano)</b>						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
<b>M8 Quick-Disconnects</b>						
CD08-0A-020-A1	<-->	2m (6.5 ft.)	3	Axial female	PVC	Figure 1
CD08-0A-020-C1	<-->	2m (6.5 ft.)	3	Right-angle female	PVC	Figure 2
CD08-0A-050-A1	<-->	5m (16.4 ft.)	3	Axial female	PVC	Figure 4
CD08-0C-050-A1	<-->	5m (16.4 ft.)	3	Axial female	PUR	Figure 3
CD08-0A-050-C1	<-->	5m (16.4 ft.)	3	Right-angle female	PVC	Figure 5
CD08-0C-050-C1	<-->	5m (16.4 ft.)	3	Right-angle female	PUR	Figure 5
CD08-0A-070-A1	<-->	7m (23 ft.)	3	Axial female	PVC	Figure 1
CD08-0A-070-C1	<-->	7m (23 ft.)	3	Right-angle female	PVC	Figure 2

<b>M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)</b>						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
<b>M12 Quick-Disconnects</b>						
CD12M-0B-050-A1*	<-->	5m (16.4 ft)	3	Axial female	PVC	Figure 8
CD12M-0D-050-A1*	<-->	5m (16.4 ft)	3	Axial female	PUR	Figure 9
CD12M-0B-050-C1*	<-->	5m (16.4 ft)	3	Right-angle female	PVC	Figure 10
CD12M-0D-050-C1*	<-->	5m (16.4 ft)	3	Right-angle female	PUR	Figure 11
CD12L-0B-020-A0	<-->	2m (6.5 ft)	4	Axial female	PVC	Figure 6
CD12L-0B-020-C0	<-->	2m (6.5 ft)	4	Right-angle female	PVC	Figure 7
CD12M-0B-070-A1	<-->	7m (23 ft)	4	Axial female	PVC	Figure 6
CD12M-0B-070-C1	<-->	7m (23 ft)	4	Right-angle female	PVC	Figure 7
7000-12221-2141000	<-->	10m (32.8 ft)	4	Axial female	PVC	Figure 13
7000-12221-2141500	<-->	15m (49.2 ft)	4	Axial female	PVC	Figure 13
7000-12341-2141000	<-->	10m (32.8 ft)	4	Right-angle female	PVC	Figure 14
7000-12341-2141500	<-->	15m (49.2 ft)	4	Right-angle female	PVC	Figure 14
7000-12241-2150300	<-->	3m (9.8 ft)	5	Axial female	PVC	Figure 15
7000-12241-2150500	<-->	5m (16.4 ft)	5	Axial female	PVC	Figure 15
7000-12241-2151000	<-->	10m (32.8 ft)	5	Axial female	PVC	Figure 15
7000-12361-2150300	<-->	3m (9.8 ft)	5	Right-angle female	PVC	Figure 16
7000-12361-2150500	<-->	5m (16.4 ft)	5	Right-angle female	PVC	Figure 16
7000-12361-2151000	<-->	10m (32.8 ft)	5	Right-angle female	PVC	Figure 16
7000-17041-2950300	<-->	3m (9.8 ft)	8	Axial female	PUR	Figure 17
7000-17041-2950500	<-->	5m (16.4 ft)	8	Axial female	PUR	Figure 17
7000-17041-2951000	<-->	10m (32.8 ft)	8	Axial female	PUR	Figure 17
7000-17061-2950300	<-->	3m (9.8 ft)	8	Right-angle female	PUR	Figure 18
7000-17061-2950500	<-->	5m (16.4 ft)	8	Right-angle female	PUR	Figure 18
7000-17061-2951000	<-->	10m (32.8 ft)	8	Right-angle female	PUR	Figure 18
7000-19041-7050300	<-->	3m (9.8 ft)	12	Axial female	PUR	Figure 19
7000-19041-7050500	<-->	5m (16.4 ft)	12	Axial female	PUR	Figure 19
7000-19041-7051000	<-->	10m (32.8 ft)	12	Axial female	PUR	Figure 19
7000-19061-7050300	<-->	3m (9.8 ft)	12	Right-angle female	PUR	Figure 20
7000-19061-7050500	<-->	5m (16.4 ft)	12	Right-angle female	PUR	Figure 20
7000-19061-7051000	<-->	10m (32.8 ft)	12	Right-angle female	PUR	Figure 20

\* Note: Do not use with sensors that require 4-pole cables.

# Sensor Cables and Connectors

## Shielded M12 Cables with quick-disconnect plugs



7000-17121-2941000



7000-17141-2940500

- Industry standard axial and right-angle M12 screw-lock connectors with open leads
- Braided shield located inside the cord jacket and connected to the coupling nut

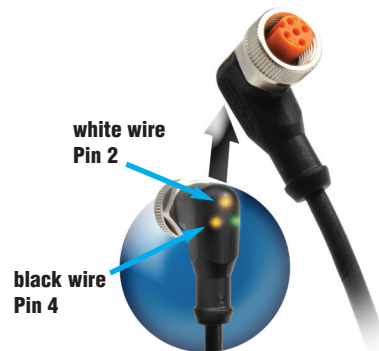
- 5m and 10m cable lengths
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated

Shielded M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connector	Jacket	Dimensions
<b>M12 Quick-Disconnects (shielded)</b>						
7000-13201-3310500	<-->	5m (16.4 ft)	4	Axial female	PUR	Figure 21
7000-13201-3311000	<-->	10m (32.8 ft)	4	Axial female	PUR	Figure 21
7000-13261-3310500	<-->	5m (16.4 ft)	4	Right-angle female	PUR	Figure 22
7000-13261-3311000	<-->	10m (32.8 ft)	4	Right-angle female	PUR	Figure 22
7000-13221-3490500	<-->	5m (16.4 ft)	5	Axial female	PUR	Figure 23
7000-13221-3491000	<-->	10m (32.8 ft)	5	Axial female	PUR	Figure 23
7000-13281-3490500	<-->	5m (16.4 ft)	5	Right-angle female	PUR	Figure 24
7000-13281-3491000	<-->	10m (32.8 ft)	5	Right-angle female	PUR	Figure 24
7000-17121-2940500	<-->	5m (16.4 ft)	8	Axial female	PUR	Figure 25
7000-17121-2941000	<-->	10m (32.8 ft)	8	Axial female	PUR	Figure 25
7000-17141-2940500	<-->	5m (16.4 ft)	8	Right-angle female	PUR	Figure 26
7000-17141-2941000	<-->	10m (32.8 ft)	8	Right-angle female	PUR	Figure 26

## Cables with LED and quick-disconnect plugs

- Industry standard M12 right angle female-plug with open leads
- These cables can be used with patch cables.
- 2m, 5m and 10m cable lengths

- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 /IP68 / IP69K, II rated
- LED indication for 10-36 VDC PNP sensors only



M12 Quick-Disconnect Cables with LED Indicator (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
<b>M12 Quick-Disconnects</b>							
EVC178*	<-->	2m (6.5 ft)	4	Right-angle female	Yes	PUR	Figure 12
EVC179*	<-->	5m (16.4 ft)	4	Right-angle female	Yes	PUR	Figure 12
EVC180*	<-->	10m (32.8 ft)	4	Right-angle female	Yes	PUR	Figure 12

*\*Note: LED for 10 to 36 VDC PNP devices only.  
Do not use with NPN or analog output devices.  
Do not use when white wire (Pin 2) is used for selection of a sensor function.  
Do not use when emitter has check function.*

### LED Models' Wiring



# Sensor Cables and Connectors

Cable Specifications					
Specification	M8		M12		
			CD Series		7000 Series (unshielded)
<b>Length</b>	2m (6.5 ft) / 7m (23 ft)	5m (16.4 ft)	2m (6.5 ft) / 7m (23 ft)	5m (16.4 ft)	3m (9.8 ft) / 5m (16.4 ft) / 10m (32.8 ft) / 15m (49.2 ft)
<b>Nominal Voltage</b>	50 VAC/75 VDC	60 VAC/VDC	250 VAC/VDC		30 VAC/VDC; 125 VAC/VDC; 250 VAC/VDC
<b>Max Current</b>	4A		4A		3/4 pin: 250 VAC/VDC, 4A 5 pin: 125 VAC/VDC, 4A 8 pin: 30 VAC/VDC, 2A 12 pin: 30 VAC/VDC, 1.5A
<b>LED Current Loading</b>	N/A				
<b>Protection Degree</b>	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67
<b>Material Nut</b>	Nickel plated brass				Nickel plated Zinc
<b>Housing Material</b>	Polyurethane (PUR) or Polyvinyl-chloride (PVC)				
<b>Contacts Material</b>	Gold plated Copper-Tin Alloy (CuSn)				Gold plated brass
<b>Tightening Torque</b>	0.5 Nm	≤ 0.4 Nm	0.5 Nm	≤ 0.4 Nm	0.6 Nm
<b>Conductors Cross Section (AWG)</b>	0.25 mm <sup>2</sup> (24 AWG)	0.25 mm <sup>2</sup> (24 AWG)	0.25 mm <sup>2</sup> (24 AWG)	0.34 mm <sup>2</sup> (22 AWG)	4 x 0.34 mm <sup>2</sup> (4 x 22 AWG) 5 x 0.34 mm <sup>2</sup> (5 x 22 AWG) 8 x 0.25 mm <sup>2</sup> (8 x 24 AWG) 12 x 0.14 mm <sup>2</sup> (12 x 26 AWG)
<b>Ø Outer Cable</b>	5mm	PVC: 4mm PUR: 4mm	5mm	PVC: 4.2 mm PUR: 4.3 mm	PVC: 5 - 5.2 mm PUR: 6.0 mm
<b>Temperature Range</b>	-25° to +80°C (-13° to 176°F)	-25° to 90°C (-13° to 194°F)	-25° to +80°C (-13° to 176°F)	PVC: -30° to 70°C (-22° to 158°F) PUR: -50° to 90°C (-58° to 194°F)	PVC: -25° to +70°C (-13° to 158°F) PUR: -25° to +85°C (-13° to 185°F)
<b>Environmental</b>	N/A	Halogen/Silicone free	N/A	Halogen/Silicone free	N/A
<b>Function Display Power LED</b>	N/A				
<b>Switching Status LED</b>	N/A				
<b>Drag Chain (Roller Cable Tray) Suitability</b>	<b>Bending Radius</b>	min. 10 x cable diameter			
	<b>Bending Cycles</b>	N/A			
	<b>Travel Speed</b>	N/A			
	<b>Torsional Strain</b>	N/A			
<b>Agency Approvals</b>	RoHS				RoHS (UL E325311 8/12 pole)



# Sensor Cables and Connectors

Cable Specifications		
Specification	M12 7000 Series (shielded)	M12 with LED
Length	5m (16.4 ft) / 10m (32.8 ft)	2m (6.5 ft) / 5m (16.4 ft) / 10m (32.8 ft)
Nominal Voltage	30 VAC/VDC / 60 VAC/VDC	10 to 36 VDC
Max Current	2A / 4A	4A
LED Current Loading	N/A	<b>10 V input</b> Brown wire LED: 1.7 mA White and/or Black LED: 0.9 mA <b>36V input</b> Brown wire LED: 7.3 mA White and/or Black LED: 4.7 mA
Protection Degree	IP67	IP67 / IP68 / IP69K
Material Nut	Nickel plated Zinc	Nickel plated Brass
Jacket Material	Polyurethane (PUR)	
Housing Material	Polyurethane (PUR)	
Contacts Material	Gold plated Brass	
Tightening Torque	0.6 Nm	0.6 to 1.5 Nm
Conductors Cross Section (AWG)	4 x 0.34 mm <sup>2</sup> (4 x 22 AWG) 5 x 0.34 mm <sup>2</sup> (5 x 22 AWG) 8 x 0.25 mm <sup>2</sup> (8 x 24 AWG)	4 x 0.34 mm <sup>2</sup> (4 x 22 AWG)
Ø Outer Cable	4/5 pole: 5.9 mm 8 pole: 7mm	5mm
Temperature Range	-25° to +80°C (-13° to 176°F)	-25° to +90°C (-13° to 194°F)
Function Display Power LED	N/A	Green
Switching Status LED	N/A	2 x Yellow
Drag Chain (Roller Cable Tray) Suitability	Bending Radius	min. 10 x cable diameter
	Bending Cycles	N/A
	Travel Speed	Max. 3.3 m/s for a horizontal travel length of 5 meters and max. acceleration of 5 m/s <sup>2</sup>
	Torsional Strain	N/A
Agency Approvals	RoHS	UL File E191684, RoHS

UL Reference	
Part Number	Mini-Series Female Cord Connectors Series M12, UL Catalog Number
EVC178	ADOAH043MSS0002H04
EVC179	ADOAH043MSS0005H04
EVC180	ADOAH043MSS0010H04

Note: Shown in UL file under Mini-series Female Cord Connectors using catalog number

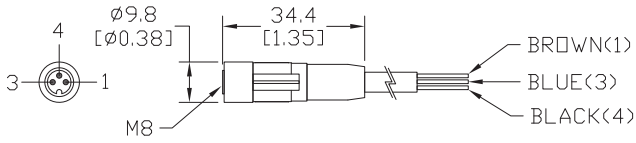


# Sensor Cables and Connectors

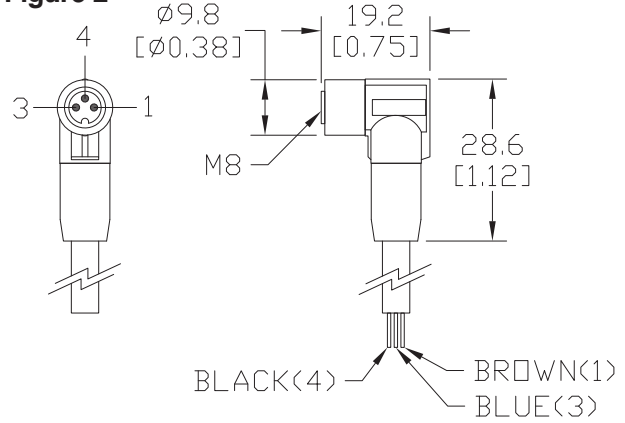
## Dimensions

mm [inches]

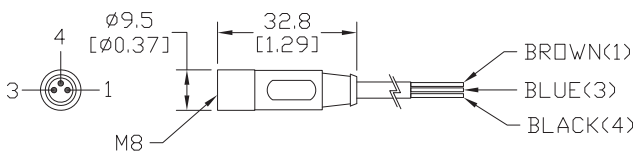
**Figure 1**



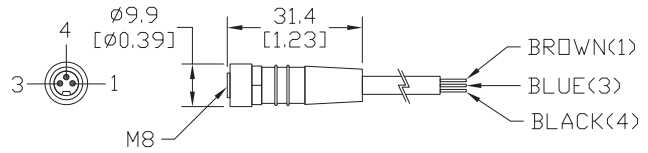
**Figure 2**



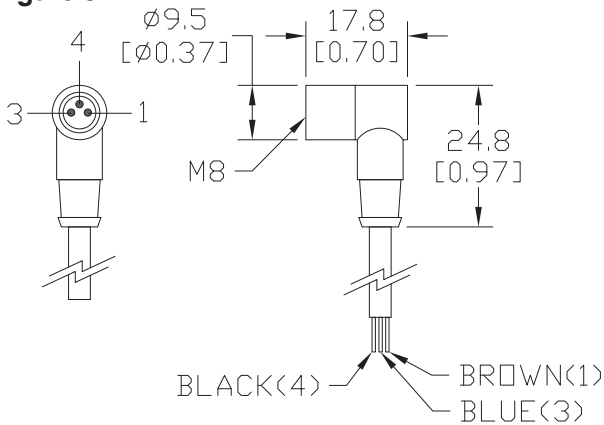
**Figure 3**



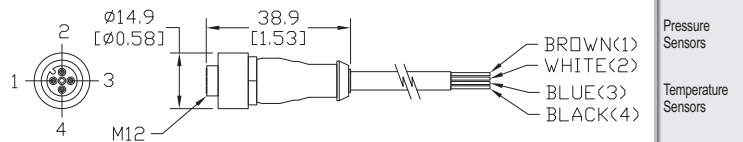
**Figure 4**



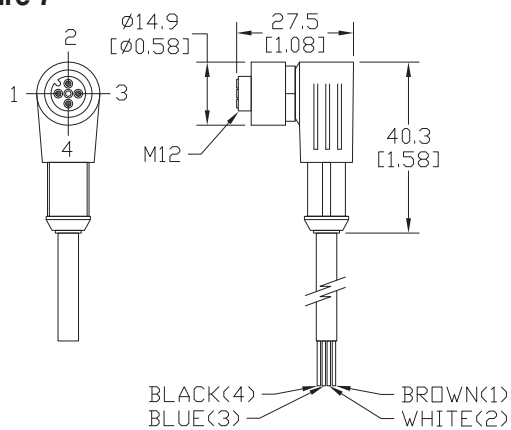
**Figure 5**



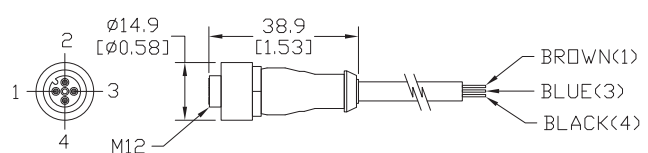
**Figure 6**



**Figure 7**



**Figure 8**

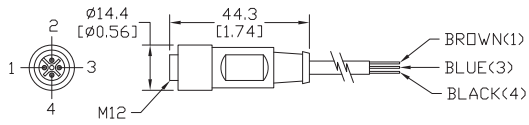


# Sensor Cables and Connectors

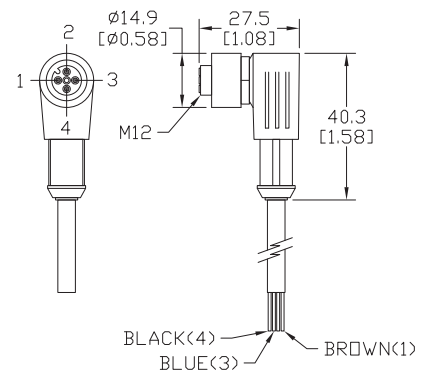
## Dimensions

mm [inches]

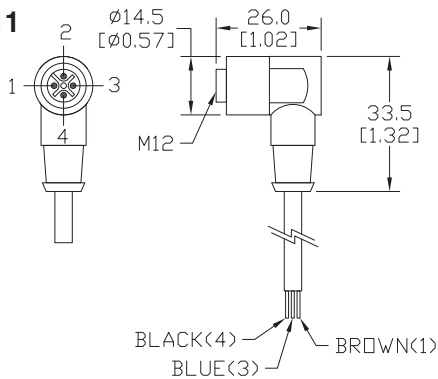
**Figure 9**



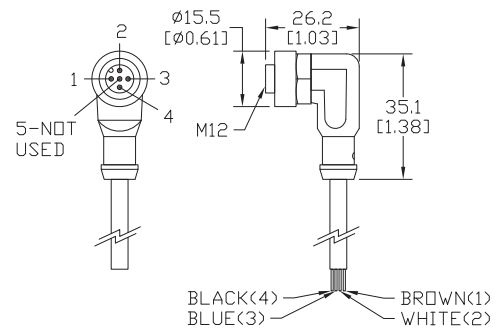
**Figure 10**



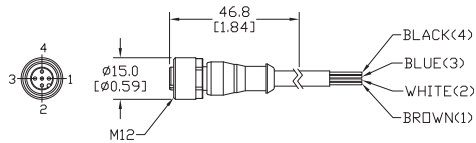
**Figure 11**



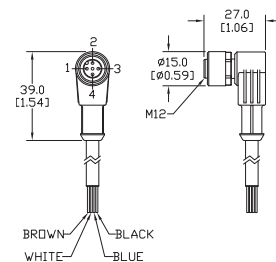
**Figure 12**



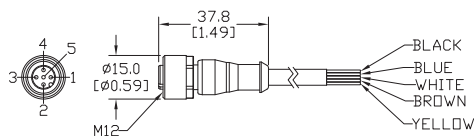
**Figure 13**



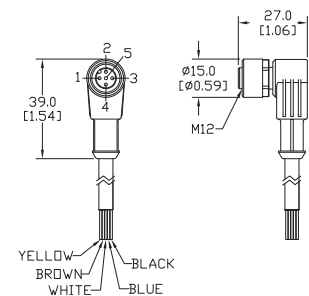
**Figure 14**



**Figure 15**



**Figure 16**



# Sensor Cables and Connectors

## Dimensions

mm [inches]

Figure 17

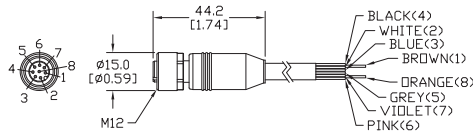


Figure 18

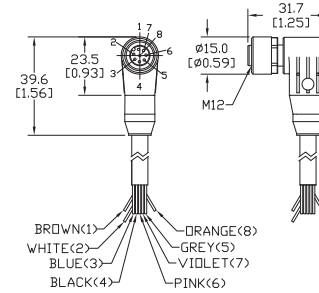


Figure 19

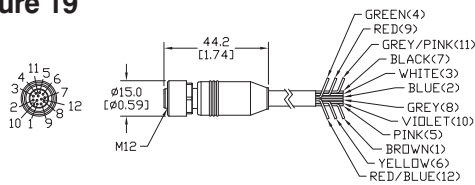


Figure 20

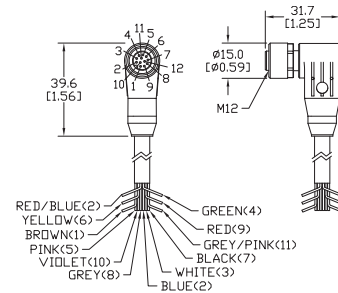


Figure 21

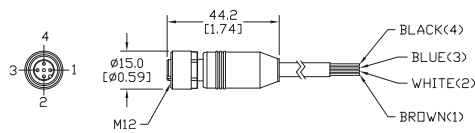


Figure 22

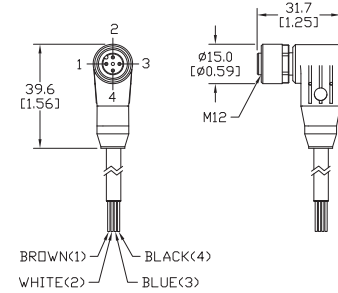


Figure 23

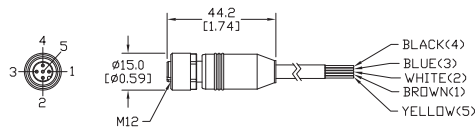


Figure 24

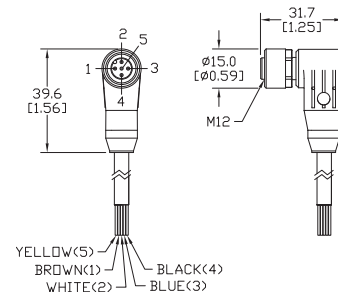


Figure 25

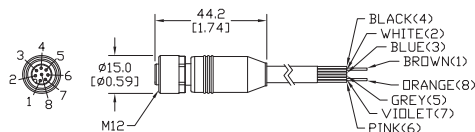
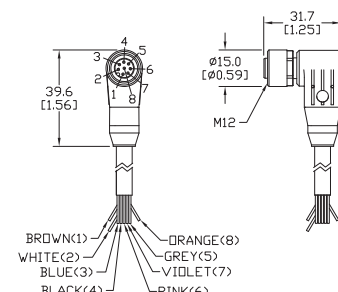


Figure 26



# We sell good proximity sensors at great prices – and we back them up!

## AutomationDirect Lifetime Warranty

### Registration required

For inductive proximity sensors sold to the Original User for the lifetime of the original application.

The following terms apply to the LIFETIME WARRANTY in addition to the General Terms:

1. This warranty is available only to AUTOMATIONDIRECT's authorized Value Added Resellers and to the Original User. In the event the ownership of the product is transferred to a person, firm, or corporation other than the Original User, this WARRANTY shall terminate.

2. This WARRANTY is applicable only to the original installation of the product. In the event the machinery, equipment, or production line to which the product is connected, or on which it is installed, is substituted, changed, moved or replaced, the WARRANTY shall terminate.

3. This WARRANTY shall be valid only if the product was purchased by the Original User from AUTOMATIONDIRECT, or from an authorized AUTOMATIONDIRECT Value Added Reseller, or was an integral part of a piece of machinery and equipment obtained by the Original User from an original equipment manufacturer, where the part was purchased by the original equipment manufacturer directly from AUTOMATIONDIRECT or from an authorized AUTOMATIONDIRECT Value Added Reseller.

### Purchaser's remedies

This remedy shall apply to all WARRANTIES. If an AUTOMATIONDIRECT Value Added Reseller desires to make a WARRANTY claim, the Value Added Reseller shall, if requested by AUTOMATIONDIRECT, ship the product to AUTOMATIONDIRECT's facility in Cumming, GA postage or freight prepaid. If the Original User desires to make a WARRANTY Claim, they shall notify the authorized Value Added Reseller from whom it was purchased or, if purchased directly from AUTOMATIONDIRECT, shall notify AUTOMATIONDIRECT and, if requested by AUTOMATIONDIRECT, ship the Product to AUTOMATIONDIRECT's facility in Cumming, GA postage or freight prepaid. AUTOMATIONDIRECT shall, at its option, take any of the following two courses of action for any products which AUTOMATIONDIRECT determines are defective in materials or workmanship.

1. Repair or replace the product and ship the product to the Original User or to the authorized AUTOMATIONDIRECT Value Added Reseller, postage or freight prepaid; or
2. Repay to the Original User that price paid by the Original User; provided that if the claim is made under the lifetime warranty, and such product is not then being supplied by AUTOMATIONDIRECT, then the amount to be repaid by AUTOMATIONDIRECT to the Original User shall be reduced according to the following schedule:

Number of Years Since Date of Purchase by Original User	Percent of Original Purchase Price To Be Paid by AutomationDirect
10	50 percent
15	25 percent
20	10 percent
More than 20	5 percent

**REMEDIES OF PURCHASER'S AND VALUE ADDED RESELLERS SHALL BE LIMITED EXCLUSIVELY TO THE RIGHT OF REPLACEMENT, REPAIR OR REPAYMENT AS PROVIDED ABOVE AND DOES NOT INCLUDE ANY LABOR COST OR REPLACEMENT AT ORIGINAL USER'S SITE. AUTOMATIONDIRECT.COM SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY WARRANTY, EXPRESSED OR IMPLIED, APPLICABLE TO THE PRODUCT, INCLUDING WITHOUT LIMITATION, ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTERRUPTION, EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES.**

Inductive proximity sensors warranty form may be obtained online at:

<http://www.automationdirect.com/static/specs/proxwarranty.pdf>