

proSense™ TTD Series Temperature Transmitters

by AUTOMATIONDIRECT

Overview



- Converts ProSense RTD0100 Series RTD temperature probe output to 4-20mA signal
- High accuracy 2-wire or 3-wire 4-20mA temperature transmitter
- M12 Quick-disconnect for fast mounting
- 3 Available temperature ranges
- 3-year warranty
- LED indication of loop current



Note: Above photo shows assembled unit with TTD Transmitter and RTD0100 Probe

ProSense Temperature Transmitter TTD Series					
Part Number	Description	Pcs/Pkg	Wt (lb)	Price	Cable Assemblies*
TTD-20-N40160F-H	Temperature transmitter, 4-20mA output, over temperature range of -40°F to 160°F (-40°C to 71.1°C)	1	0.25		CD12L-0B-020-A0 CD12L-0B-020-C0
TTD-20-N40300F-H	Temperature transmitter, 4-20mA output, over temperature range of -40°F to 300°F (-40°C to 148.8°C)	1	0.25		CD12M-0B-070-A1 CD12M-0B-070-C1 CDP12-0B-010-AA CDP12-0B-030-AA
TTD-20-30300F-H	Temperature transmitter, 4-20mA output, over temperature range of 30°F to 300°F (-1.1°C to 148.8°C)	1	0.25		CDP12-0B-010-BB CDP12-0B-030-BB

* Order separately - See proximity sensor section for cable specs.

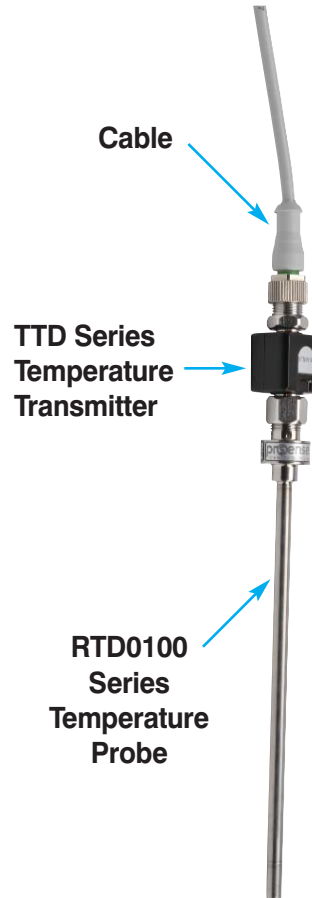
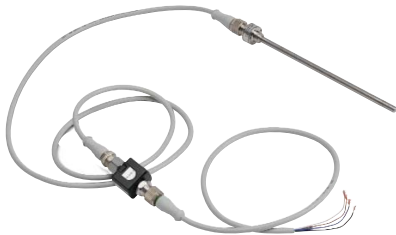
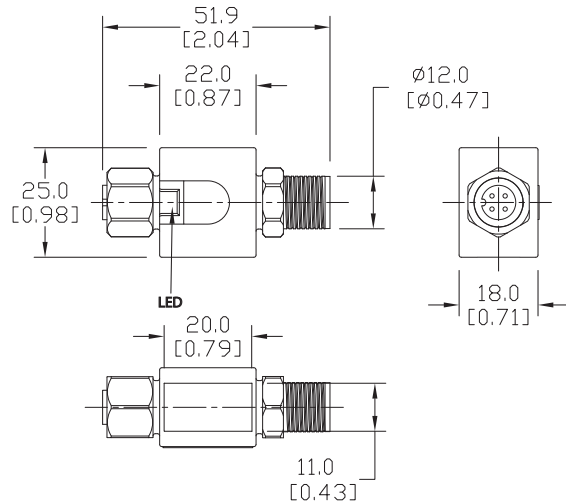
ProSense TTD Series Technical Specifications			
	TTD-20-N40160F-H	TTD-20-N40300F-H	TTD-20-30300F-H
Operating Voltage	20 to 32 VDC		
Electrical Connection	M12 connector; gold-plated contacts (torque 5 to 13 in/lbs)		
Short-Circuit Protection	Yes (non-latching)		
Overload Protection	Yes		
Reverse Polarity Protection	Yes		
Analog Output	4 to 20 mA (min/max 3.85 to 22 mA)		
Maximum Load	Rmax: 300 Ω		
Accuracy	± 0.3°C + (± 0.1 % span)		
Resolution	± 0.3°C + (± 0.1 % span)		
Measuring - Display [ms] / Cycle [ms]	100		
Scaled Range	-40°F to 160°F (-40°C to 71.1°C)	-40°F to 300°F (-40°C to 148.8°C)	30°F to 300°F (-1.1°C to 148.8°C)
Dynamic Response (DIN EN 60751)	*t0.5 + 1 sec. / t0.9 = 3 sec.		
Housing Material	Polyamide PACM 12 (TROGAMID); PED; sealing:FPM (Viton); nut: stainless steel 316L / 1.4404; connector: TPU (urethane)		
Ambient Temperature	-13°F to 158°F (-25°C to 70°C)		
Storage Temperature	-40°F to 185°F (-40°C to 85°C)		
Protection	IP 67		
Insulation Resistance	> 100MΩ / 500 VDC		
Shock Resistance	50g (DIN / IEC 68-2-27, 11ms)		
Vibration Resistance	20g (DIN / EN 68-2-6, (10 to 2000 Hz)		
EMC	EN 61326		
EN 61000-4-2 ESD	4 kV CD / 8 kV AD		
EN 61000-4-3 HF Radiated	10 V/m		
EN 61000-4-4 Burst	2 kV		
EN 61000-4-5 Surge	1 kV		
EN 61000-4-6 HF Conducted	10 V		
Power-On Delay Time	1 sec.		
Agency Approvals	UL 508 listed, File # E324411, CE, RoHS		

prSense™ TTD Series Temperature Transmitter

by AUTOMATIONDIRECT

Dimensions

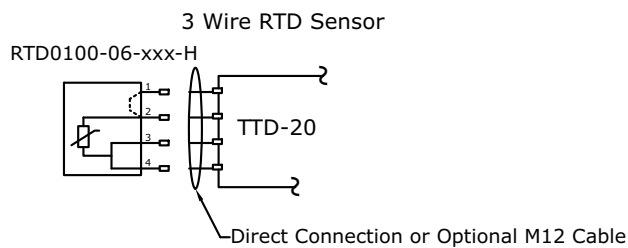
mm [inches]



Note: The TTD transmitter can be located remotely from the RTD0100 probe by using an additional patch cable.

Wiring

INPUT SENSOR CONNECTION



Cable Assembly Wiring Colors:

Pin 1 - Brown

Pin 2 - White

Pin 3 - Blue

Pin 4 - Black

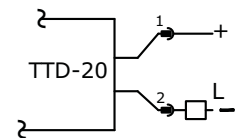
Note: Wiring colors are based on AutomationDirect CD12L and CD12M 4-pole cable assemblies.



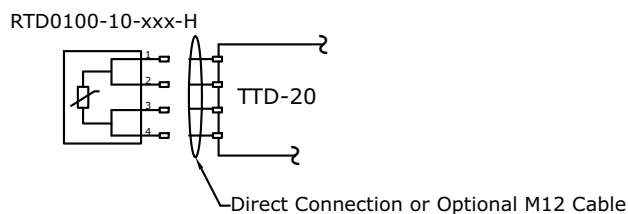
See Proximity Sensor section for cable specs

OUTPUT SIGNAL CONNECTION

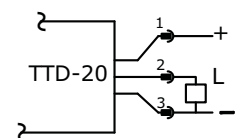
2 Wire 4-20mA Output Signal



4 Wire RTD Sensor



3 Wire 4-20mA Output Signal



RTD Probes with M12 Cable Connector



Overview

- All temperature sensors are pre-built stock items
- 100 ohm platinum RTD element
- Class A accuracy
- 316 stainless steel sheath to protect from harsh sensing applications
- 6 mm (0.24") diameter 3-wire or 10 mm (0.4") diameter 4-wire probes
- Probe lengths of 160 mm, 260 mm, 360 mm, and 560 mm
- 4-pin M12 cable connector plug for simplified wiring
- 3-year warranty



RTD Probes With M12 Cable Connector										
Part Number	Pcs/Pkg	Wt(lb)	Price	Type	Diameter	Length	Temperature Sensing Range	Mounting Fitting	Thermowell	Cable Assemblies
RTD0100-06-010-H	1	0.10		PT 100 3-wire	0.24 inch (6 mm)	6.3 inch (160 mm)	-40 to 302°F (-40 to 150°C), Wiring connection limited to -13 to 176°F (-25 to 80°C)	CF06-25N	RTDTW-06-010-50N CF06-25N	CD12L-0B-020-A0 CD12L-0B-020-C0 CD12M-0B-070-A1 CD12M-0B-070-C1 CDP12-0B-010-AA CDP12-0B-030-AA CDP12-0B-010-BB CDP12-0B-030-BB (order separately - See Proximity Sensor section for cable specs)
RTD0100-06-020-H	1	0.20		PT 100 3-wire	0.24 inch (6 mm)	10.2 inch (260 mm)		CF06-25N	RTDTW-06-020-50N CF06-25N	
RTD0100-06-030-H	1	0.30		PT 100 3-wire	0.24 inch (6 mm)	14.2 inch (360 mm)		CF06-25N	RTDTW-06-030-50N CF06-25N	
RTD0100-10-010-H	1	0.10		PT 100 4-wire	10 mm (0.4 inch)	160 mm (6.3 inch)		CF10-50N	RTDTW-10-010-50N CF10-50N	
RTD0100-10-020-H	1	0.15		PT 100 4-wire	10 mm (0.4 inch)	260 mm (10.2 inch)		CF10-50N	RTDTW-10-020-50N CF10-50N	
RTD0100-10-030-H	1	0.22		PT 100 4-wire	10 mm (0.4 inch)	360 mm (14.2 inch)		CF10-50N	RTDTW-10-030-50N CF10-50N	
RTD0100-10-050-H	1	0.33		PT 100 4-wire	10 mm (0.4 inch)	560 mm (22.0 inch)		CF10-50N	RTDTW-10-050-50N CF10-50N	

RTD Probes With M12 Cable Connector Technical Specifications	
Sensing Element	Single 100 ohm platinum (Pt100), TCR = 0.00385 Ω/Ω/°C
Initial Accuracy	DIN EN 60751, Class A, ± (0.15 + 0.002[t])°C
Probe	6 mm (0.24") or 10 mm (0.4"), 316 stainless steel sheath with single RTD element, 316 stainless steel wiring connection
Minimum Installation Depth	0.6" (15 mm)
Response Time	*t0.5 = 1 sec/ t0.9 = 3 sec (DIN EN 60751)
Wiring	M12 connector; gold-plated contacts, IP 68 / IP 69K, Class III

* t0.5 = a 50% of full scale change in output when immersed in water at 0.4m/s, t0.9 = a 90% FS change.



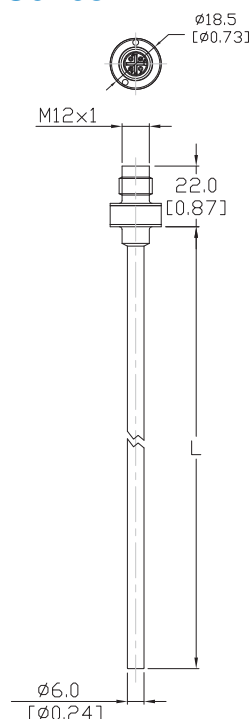
NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.
www.automationdirect.com/static/specs/prosensechemresistance.pdf

proSense™ RTD Probes with M12 Cable Connector

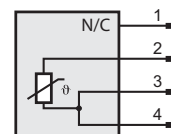
by AUTOMATIONDIRECT

RTD Dimensions/Wiring

RTD0100-06 Series



Wiring Information



Cable Assembly Wiring Colors:

Pin 1 - Brown

Pin 2 - White

Pin 3 - Blue

Pin 4 - Black

Note: wiring colors are based on AutomationDirect CD12L and CD12M 4-pole cable assemblies.

Part Number	Length	L
RTD0100-06-010-H	160 mm	[6.3]
RTD0100-06-020-H	260 mm	[10.2]
RTD0100-06-030-H	360 mm	[14.2]

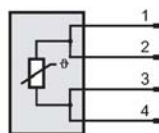
Dimensions shown mm [inches]



NOTE: MOUNT 0.24 (6 MM) INCH DIAMETER RTDs BY USING PROSENSE RTDWTW SERIES THERMOWELLS AND / OR CF06-25N COMPRESSION FITTING.

RTD0100-10 Series

Wiring Information



Cable Assembly Wiring Colors:

Pin 1 - Brown

Pin 2 - White

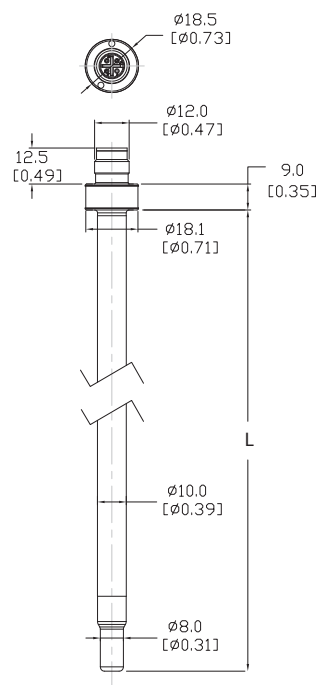
Pin 3 - Blue

Pin 4 - Black

Note: wiring colors are based on AutomationDirect CD12L and CD12M 4-pole cable assemblies.

Part Number	Length	L
RTD0100-10-010-H	160 mm	[6.3]
RTD0100-10-020-H	260 mm	[10.2]
RTD0100-10-030-H	360 mm	[14.2]
RTD0100-10-050-H	560 mm	[22.0]

Dimensions shown mm [inches]



NOTE: MOUNT 10MM DIAMETER RTDs BY USING PROSENSE RTDWTW SERIES THERMOWELLS AND / OR CF10-50N COMPRESSION FITTING.

Sensors Accessories: Cables

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, 5m, 7m and 10m cable lengths
- PVC (polyvinyl chloride) jacket for typical industrial applications
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 rated

M8 Quick-Disconnect Cables (Pico, Nano)

Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
M8 Quick-Disconnects							
CD08-0A-020-A1		2m (6.5ft.)	3	Axial	No	PVC	Figure 1
CD08-0A-020-C1		2m (6.5ft.)	3	Right-angle	No	PVC	Figure 2
CD08-0A-050-A1		5m (16.4ft.)	3	Axial	No	PVC	Figure 4
CD08-0C-050-A1		5m (16.4ft.)	3	Axial	No	PUR	Figure 3
CD08-0A-050-C1		5m (16.4ft.)	3	Right-angle	No	PVC	Figure 5
CD08-0C-050-C1		5m (16.4ft.)	3	Right-angle	No	PUR	Figure 5
CD08-0A-070-A1		7m (23ft.)	3	Axial	No	PVC	Figure 1
CD08-0A-070-C1		7m (23ft.)	3	Right-angle	No	PVC	Figure 2

M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)

Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
M12 Quick-Disconnects							
CD12L-0B-020-A0		2m (6.5ft)	4	Axial	No	PVC	Figure 6
CD12L-0B-020-C0		2m (6.5ft)	4	Right-angle	No	PVC	Figure 7
CD12M-0B-050-A1*		5m (16.4ft)	3	Axial	No	PVC	Figure 8
CD12M-0D-050-A1*		5m (16.4ft)	3	Axial	No	PUR	Figure 9
CD12M-0B-050-C1*		5m (16.4ft)	3	Right-angle	No	PVC	Figure 10
CD12M-0D-050-C1*		5m (16.4ft)	3	Right-angle	No	PUR	Figure 11
CD12M-0B-070-A1		7m (23ft)	4	Axial	No	PVC	Figure 6
CD12M-0B-070-C1		7m (23ft)	4	Right-angle	No	PVC	Figure 7

* Note: Do not use with: DM, FA, QX, SS, SSF, SU, TU, VM, VK, MV, MS or MSF series sensors. These sensors require 4-pole cables.

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
M12 Quick-Disconnects							
EVC178*		2m (6.5ft)	4	Right-angle	Yes	PUR	Figure 12
EVC179*		5m (16.4ft)	4	Right-angle	Yes	PUR	Figure 12
EVC180*		10m (32.8ft)	4	Right-angle	Yes	PUR	Figure 12

*Note: LED for 10 to 36 VDC PNP only.
Do not use when white wire (Pin 2) is used for selection of a sensor function.



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



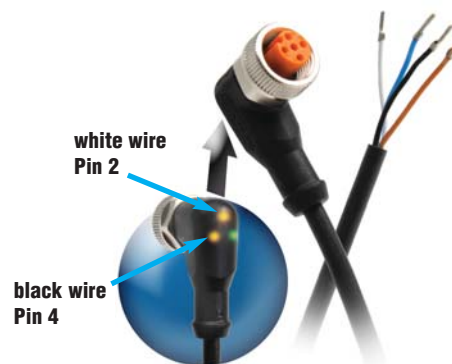
CD08-0A-050-A1 and -C1 shown



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



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



LED Models' Wiring



PNP—NORMALLY OPEN

Sensors Accessories: Cables

Cable Specifications					
Specification	M8		M12		M12 with LED
Length	2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5ft) / 7m (23ft)	5m (16.4ft)	2m (6.5 ft) / 5m (16.4ft) / 10m (32.8ft)
Nominal Voltage	50VAC/75VDC	60VAC/DC	300VAC	250VAC/DC	10 to 36VDC
Max Current	4A		4A		4A
LED Current Loading	N/A	N/A	N/A	N/A	10V input Brown wire LED: 1.7mA White and/or Black LED: 0.9mA 36V input Brown wire LED: 7.3mA White and/or Black LED: 4.7mA
Protection Degree	IP67	IP65 / IP68 / IP69K	IP67	PVC: IP68 PUR: IP68 / IP69K	IP67 / IP68 / IP69K
Material Nut	brass; nickel plated		brass; nickel plated		brass; nickel plated
Jacket Material	PVC	PVC:CD08-0A-xxx. PUR:CD08-0C-xxx	PVC	PVC:CD12M-0B-xxx. PUR:CD12M-0D-xxx	PUR
Housing Material	PUR		PUR		PUR
Contacts Material	Copper-Tin Alloy (CuSn) -gold plated		Copper-Tin Alloy (CuSn) -gold plated		Gold plated brass
Tightening Torque	0.5 Nm	≤ 0.4 Nm	0.5 Nm	≤ 0.4 Nm	0.6 to 1.5 Nm
Conductors Cross Section (AWG)	0.25mm ² (24 AWG)	0.25mm ² (24 AWG)	0.25mm ² (24 AWG)	0.34mm ² (22 AWG)	4 x 0.34mm ² (4 x 22 AWG)
Ø Outer Cable	5mm	PVC: 4 mm PUR: 4 mm	5mm	PVC: 4.2 mm PUR: 4.3 mm	5mm
Temperature Range	-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)	-25° to +90°C (-13° to 194°F)
Environmental	N/A	Halogen free, Silicone free	N/A	Halogen free, Silicone free	Halogen free, Silicone free
Function Display Power LED	N/A	N/A	N/A	N/A	Green
Switching Status LED	N/A	N/A	N/A	N/A	2 x Yellow
Drag Chain (Roller Cable Tray) Suitability	Bending Radius	min. 10 x cable diameter			
	Bending Cycles	N/A	N/A	N/A	>5 million
	Travel Speed	N/A	N/A	N/A	Max. 3.3 m/s for a horizontal travel length of 5 meters and max. acceleration of 5 m/s ²
	Torsional Strain	N/A	N/A	N/A	±180°/m
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	

Sensors Accessories: Cables

Dimensions (in/mm)

Figure 1

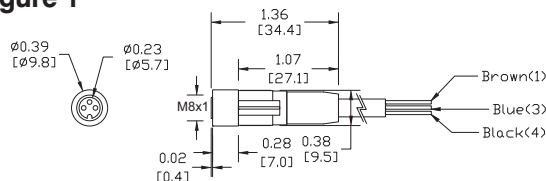


Figure 2

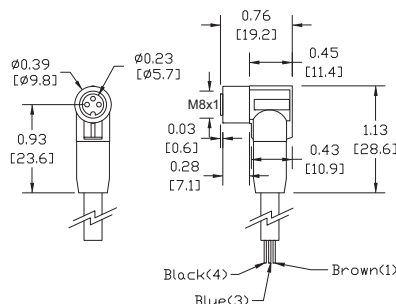


Figure 3

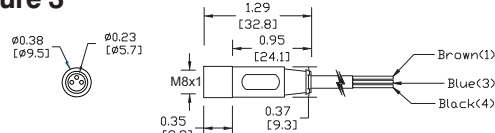


Figure 4

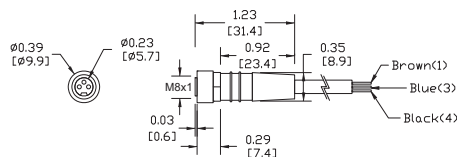


Figure 5

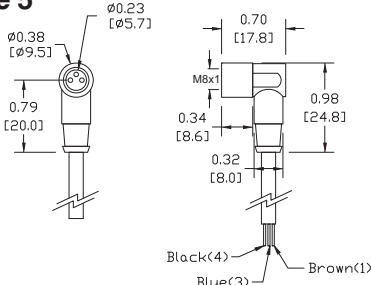
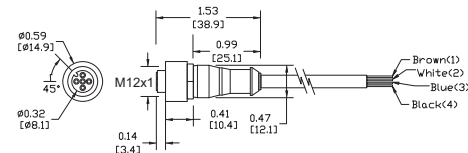


Figure 6



FP0

Figure 7

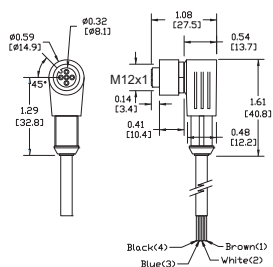


Figure 8

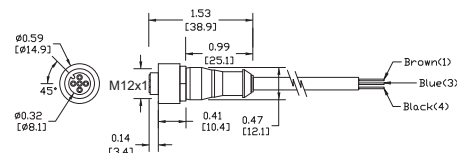


Figure 9

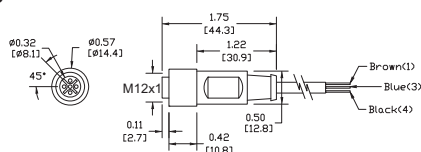


Figure 10

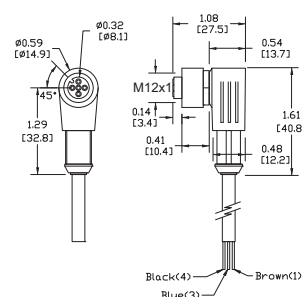


Figure 11

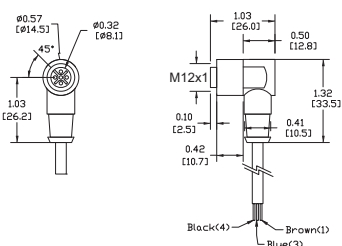
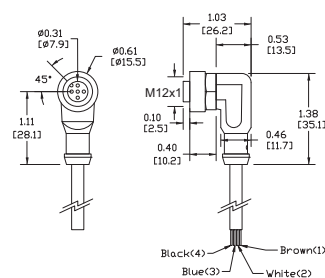


Figure 12



Sensors Accessories: Cables

Patch cables with quick-disconnect plugs on each end

Available patch cables include:

- Industry standard M8 and M12 screw-lock connectors

- One male and one female connector
- Axial and right-angle connector models
- 1m and 3m cable lengths
- PVC (polyvinyl chloride) jacket for typical industrial applications
- IP67 rated



M8 Patch Cables with Quick-Disconnect on Each End (Pico, Nano)						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
M8 Quick-Disconnect Patch Cables						
CDP08-0A-010-AA		1m (3.28ft)	3	2 Axial. One male and one female connector	PVC	Figure 1
CDP08-0A-010-BB		1m (3.28ft)	3	2 Right-angle. One male and one female connector	PVC	Figure 3
CDP08-0A-030-AA		3m (9.84ft)	3	2 Axial. One male and one female connector	PVC	Figure 2
CDP08-0A-030-BB		3m (9.84ft)	3	2 Right-angle. One male and one female connector	PVC	Figure 3

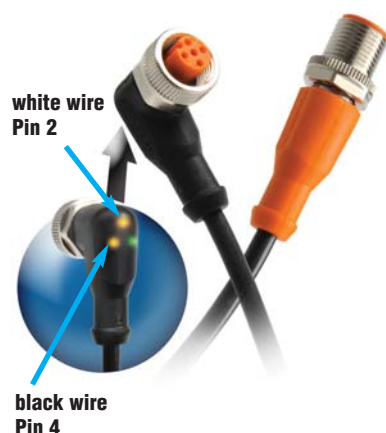
M12 Patch Cables with Quick-Disconnect on Each End (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
M12 Quick-disconnect Patch Cables						
CDP12-0B-010-AA		1m (3.28ft.)	4	2 Axial. One male and one female connector	PVC	Figure 4
CDP12-0B-010-BB		1m (3.28ft.)	4	2 Right-angle. One male and one female connector	PVC	Figure 5
CDP12-0B-030-AA		3m (9.84ft.)	4	2 Axial. One male and one female connector	PVC	Figure 4
CDP12-0B-030-BB		3m (9.84ft.)	4	2 Right-angle. One male and one female connector	PVC	Figure 5

Patch Cables with LED

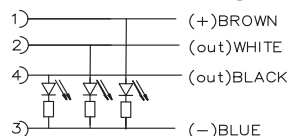
Available patch cables with LED include:

- Right-angle M12 female plug with LED indication on one end and axial male plug on the other end
- 0.3m, 0.6m, 1m, 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



LED Models' Wiring



PNP—NORMALLY OPEN



M12 Patch Cables with LED Indicator (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connectors	LED	Jacket	Dimensions
M12 Patch Cables							
EVC322*		0.3m (0.98ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
EVC323*		0.6m (1.97ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
EVC324*		1m (3.28ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
EVC325*		2m (6.5ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
EVC326*		5m (16.4ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6
EVC327*		10m (32.8ft)	4	Right-angle female, axial male	Yes	PUR	Figure 6

Note: LED for 10 to 36 VDC PNP only.

Do not use when white wire (Pin 2) is used for selection of a sensor function.

Company
InformationSystems
OverviewProgrammable
Controllers

Field I/O

Software

C-more &
other HMI

Drives

Soft
StartersMotors &
GearboxSteppers/
ServosMotor
ControlsProximity
SensorsPhoto
SensorsLimit
Switches

Encoders

Current
SensorsPressure
SensorsTemperature
SensorsPushbuttons/
Lights

Process

Relays/
Timers

Comm.

Terminal
Blocks &
Wiring

Power

Circuit
Protection

Enclosures

Tools

Pneumatics

Appendix

Product
IndexPart #
Index

Sensors Accessories: Cables

Cable Specifications		
Specification	M8 / M12	M12 with LED
Length	1m (3.28ft.) / 3m (9.84ft.)	0.3m (0.98ft) / 0.6m (1.97ft) / 1m (3.28ft) 2m (6.5ft) / 5m (16.4ft) / 10m (32.8ft)
Nominal Voltage	50VAC/75VDC	10 to 36VDC
Max Current	4A	4A
	N/A	10V input Brown wire LED: 1.7mA White and/or Black LED: 0.9mA 36V input Brown wire LED: 7.3mA White and/or Black LED: 4.7mA
Protection Degree	IEC IP67	IEC IP67/IP68/IP69K
Material Nut	Brass: nickel plated	Brass: nickel plated
Jacket Material	PVC	PUR
Housing Material	PUR	Connector: Orange PUR, Socket: Black PUR
Contacts Material	Copper-tin(CuSn)=Brass	Brass: gold plated
Conductors Cross Section (AWG)	0.34mm ²	0.34mm ² (22 AWG)
Tightening Torque	0.5 Nm	Plug: 0.6 to 1.5 Nm (take into account the maximum value of the counterpart) Socket: 0.6 to 1.5 Nm
Ø Outer Cable	5mm	5mm
Temperature Range	-25° to +70°C (-13° to 158°F)	-25° to +90°C (-13° to 194°F)
Environmental		Halogen-free, Silicone-free
Function Display 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	>5 million
	Travel Speed	N/A Max. 3.3 m/s for a horizontal travel length of 5 m and max. acceleration of 5 m/s ²
	Torsional Strain	N/A ±180°/m
Agency Approvals	RoHS	UL File E191684, RoHS

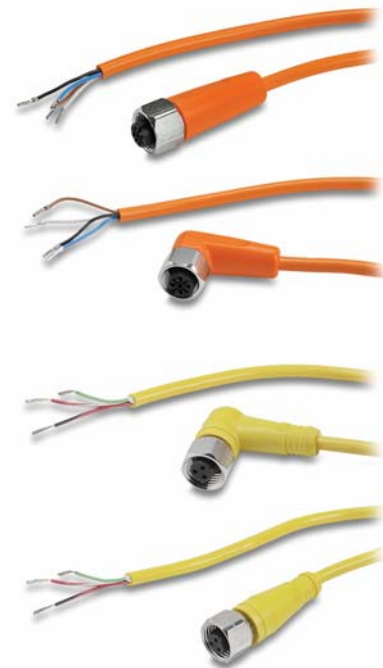
UL Reference	
Part Number	Cable Assemblies Series M12, UL Catalog Number
EVC322	VDOAH043MSS00.3H04STGH040MSS
EVC323	VDOAH043MSS00.6H04STGH040MSS
EVC324	VDOAH043MSS0001H04STGH040MSS
EVC325	VDOAH043MSS0002H04STGH040MSS
EVC326	VDOAH043MSS0005H04STGH040MSS
EVC327	VDOAH043MSS0010H04STGH040MSS
Note: Shown in UL file under Cable Assemblies using catalog number	

Sensors Accessories: IP69K-rated Cables

Cables with quick-disconnect plugs

- Industry standard axial and right-angle M12 or 1/2" Micro connectors with open leads
- 5m and 10m cable lengths
- PVC (polyvinyl chloride) jacket for food and beverage industrial applications
- IP69K rated for food and beverage industrial applications
- 316L stainless steel coupling nut
- EPDM o-ring

M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)							
Part Number	Price	Length	Poles	Connector	LED	Jacket	Dimensions
M12 Quick-Disconnects							
EVT221		5m (16.4ft)	4	Axial	No	Orange PVC	Figure 4
EVT222		5m (16.4ft)	4	Right-angle	No	Orange PVC	Figure 1
EVT223		10m (32.8ft)	4	Axial	No	Orange PVC	Figure 4
EVT224		10m (32.8ft)	4	Right-angle	No	Orange PVC	Figure 1
Micro AC Volt 1/2 Inch - 20 UNF Cables							
1/2" Quick-Disconnects							
E18446		5m (16.4ft)	3	Axial	No	Yellow PVC	Figure 6
E18447		5m (16.4ft)	3	Right-angle	No	Yellow PVC	Figure 5
E18448		10m (32.8ft)	3	Axial	No	Yellow PVC	Figure 6
E18449		10m (32.8ft)	3	Right-angle	No	Yellow PVC	Figure 5



LED Units Wiring

Patch cables with quick-disconnect plugs on each end

Available patch cables include:

- Industry standard M12 screw-lock connectors
- One male and one female connector
- Axial and right-angle connector models
- 0.3m, 0.6m, 1m, 2m and 5m cable lengths
- PVC (polyvinyl chloride) jacket for food and beverage industrial applications
- IP69K rating, suitable for food and beverage industrial applications
- 316L stainless steel coupling nut
- EPDM o-ring

M12 Patch Cables with Quick-Disconnect on Each End (Euro, Micro DC-Single Key)						
Part Number	Price	Length	Poles	Connectors	Jacket	Dimensions
M12 Quick-Disconnect Patch Cables						
EVT225		0.3m (0.98ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT226		0.3m (0.98ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT227		0.6m (1.97ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT228		0.6m (1.97ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT229		1m (3.3ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT230		1m (3.3ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT231		2m (6.6ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT232		2m (6.6ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2
EVT233		5m (16.4ft)	4	Axial female plug to axial male plug	Orange PVC	Figure 3
EVT234		5m (16.4ft)	4	Right angle female plug to axial male plug	Orange PVC	Figure 2

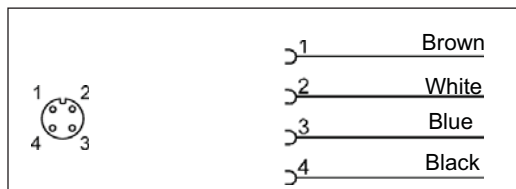


Sensors Accessories: IP69K-rated Cables

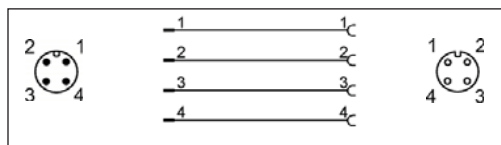
Cable Specifications		
Specification	M12	1/2"
Length	0.3m (0.98ft), 0.6m (1.97ft), 1m (3.3ft), 2m (6.6ft), 5m (16.4ft), 10m (32.8ft)	5m (16.4ft), 10m (32.8ft)
Nominal Voltage	250 VAC/300 VDC	300 VAC/VDC
Max Current	4A	4A
Protection Degree	IEC IP67 / IP68 / IP69K	IEC IP67 / IP68 / IP69K
Material Nut	316L stainless steel	316L stainless steel
Jacket Material	PVC	PVC
Housing Material	PVC	PVC
Contacts Material	Gold plated	Gold plated
Tightening Torque	0.6 to 1.5 Nm	
Conductors Cross Section (AWG)	22 AWG	22 AWG
Ø Outer Cable	4.9 mm	4.5 mm
Temperature Range	-25° to 100°C (-13° to 212°F)	-10° to 100°C (14° to 212°F)
Environmental	Halogen free, Silicone free	Halogen free, Silicone free
Bending Radius	min. 10 x cable diameter	
Agency Approvals	UL E191684	UL E177636

Wiring - M12 DC

EVT221, EVT222, EVT223, EVT224

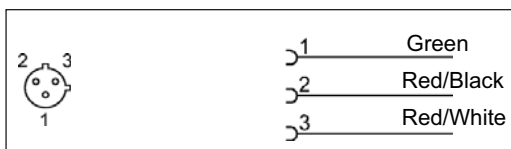


EVT225, EVT226, EVT227, EVT228, EVT229,
EVT230, EVT231, EVT232, EVT233, EVT234



Wiring - 1/2" Micro AC

E18446, E18447, E18448, E18449



Company
Information

Systems
Overview

Programmable
Controllers

Field I/O

Software

C-more &
other HMI

Drives

Soft
Starters

Motors &
Gearbox

Steppers/
Servos

Motor
Controls

Proximity
Sensors

Photo
Sensors

Limit
Switches

Encoders

Current
Sensors

Pressure
Sensors

Temperature
Sensors

Pushbuttons/
Lights

Process

Relays/
Timers

Comm.

Terminal
Blocks &
Wiring

Power

Circuit
Protection

Enclosures

Tools

Pneumatics

Appendix

Product
Index

Part #
Index

Sensors Accessories: IP69K-rated Cables

Dimensions mm (in)

Figure 1

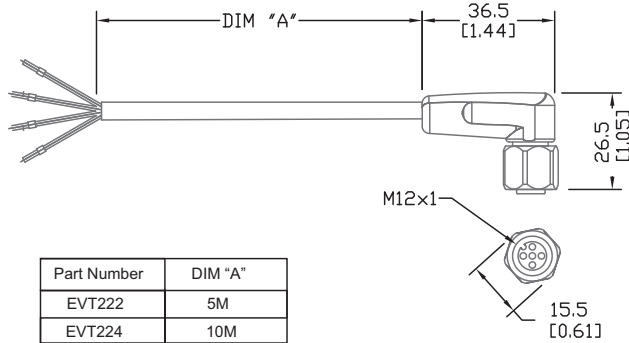


Figure 2

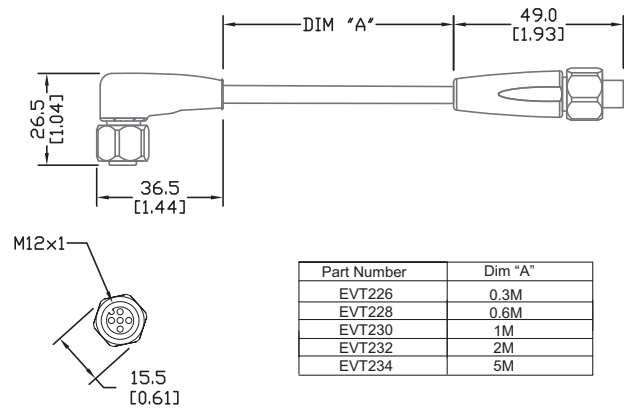


Figure 3

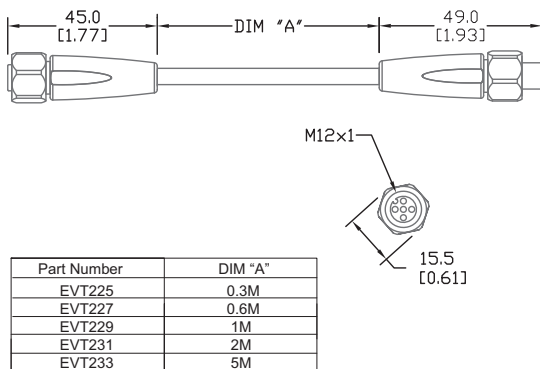


Figure 4

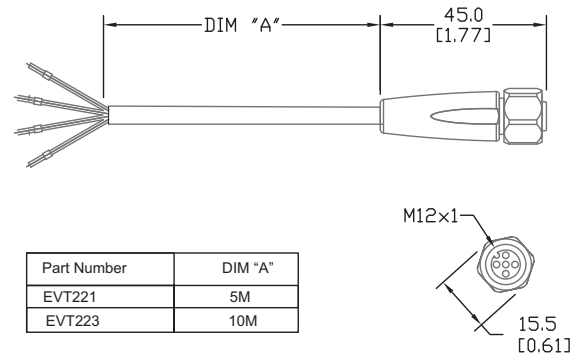


Figure 5

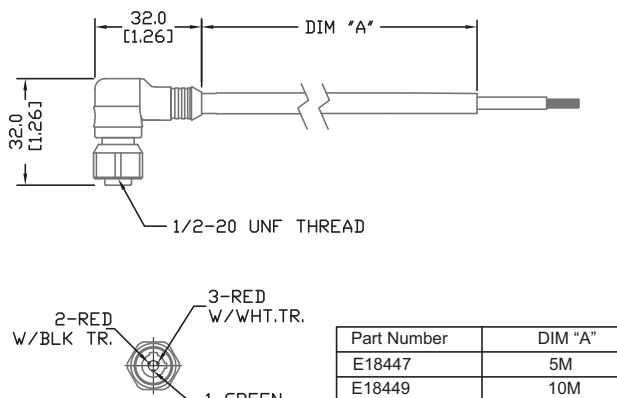


Figure 6

