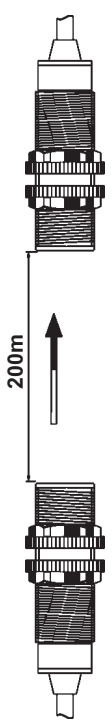






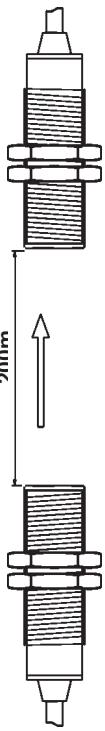








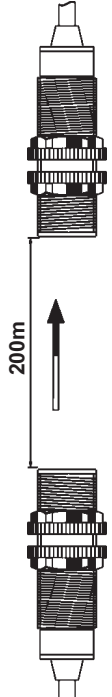






## D30 SENSORS SELECTION GUIDE

Sensing mode	material	Connection	Output mode	Part number
<p>Infrared: 880nm</p>  <p>200m</p> <p>Through-beam mode</p> <p>Sensing distance: 200m</p>	Plastic	Cable(2m PVC) 	Emitter	D30P-T200MD-EX9C3L2-A
		CE	NPN or PNP, LO or DO	D30P-T200MD-CX9C4U2-A
			Quick Disconnect (Mini Style) 	Emitter
		CE	NPN or PNP, LO or DO	D30P-T200MD-CX9Q4UN-A
			Cable (2m PVC) 	Emitter
		CE	NPN or PNP, LO or DO	D30P-T200MD-CX9C4U2-B
			Quick Disconnect (Mini Style) 	Emitter
		CE	NPN or PNP, LO or DO	D30P-T200MD-CX9Q4UN-B
			Cable (2m PVC) 	Emitter
		CE	NPN or PNP, LO or DO	D30P-T200MD-CX9C4U2-C
			Quick Disconnect (Mini Style) 	Emitter
		CE	NPN or PNP, LO or DO	D30P-T200MD-CX9Q4UN-C

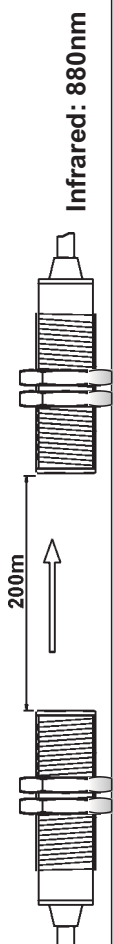






D30 SENSORS SELECTION GUIDE

Sensing mode	material	Connection	Output mode	Part number
<p>Infrared: 880nm</p>  <p>200mm</p>	<p>Brass</p>	<p>Cable (2m PVC)</p> 	Emitter	D30B-T200MD-EX9C3L2-A
			NPN or PNP, LO or DO	D30B-T200MD-CX9C4U2-A
		<p>Quick Disconnect (Mini Style)</p> 	Emitter	D30B-T200MD-EX9Q3LN-A
			NPN or PNP, LO or DO	D30B-T200MD-CX9Q4UN-A
		<p>Cable (2m PVC)</p> 	Emitter	D30B-T200MD-EX9C3L2-B
			NPN or PNP, LO or DO	D30B-T200MD-CX9C4U2-B
<p>Through-beam mode</p> <p>Sensing distance: 200m</p>		<p>Quick Disconnect (Mini Style)</p> 	Emitter	D30B-T200MD-EX9Q3LN-B
			NPN or PNP, LO or DO	D30B-T200MD-CX9Q4UN-B
		<p>Cable (2m PVC)</p> 	Emitter	D30B-T200MD-EX9C3L2-C
			NPN or PNP, LO or DO	D30B-T200MD-CX9C4U2-C
		<p>Quick Disconnect (Mini Style)</p> 	Emitter	D30B-T200MD-EX9Q3LN-C
			NPN or PNP, LO or DO	D30B-T200MD-CX9Q4UN-C

## D30 SENSORS SELECTION GUIDE

Sensing mode	material	Connection	Output mode	Part number
<p style="text-align: center;">Infrared: 880nm</p>  <p style="text-align: center;">Through-beam mode Sensing distance: 200m</p>	Plastic	Cable (2m PVC) 	Emitter	D30P-T200MA-EX9C3L2-A
			SPST Solid-state LO	D30P-T200MA-LX9C2L2-A
			SPST Solid-state DO	D30P-T200MA-DX9C2L2-A
		Quick Disconnect (Mini Style) 	Emitter	D30P-T200MA-EX9Q3LN-A
			SPST Solid-state LO	D30P-T200MA-LX9Q3LN-A
			SPST Solid-state DO	D30P-T200MA-DX9Q3LN-A
		Cable (2m PVC) 	Emitter	D30P-T200MA-EX9C3L2-B
			SPST Solid-state LO	D30P-T200MA-LX9C2L2-B
			SPST Solid-state DO	D30P-T200MA-DX9C2L2-B
		Quick Disconnect (Mini Style) 	Emitter	D30P-T200MA-EX9Q3LN-B
			SPST Solid-state LO	D30P-T200MA-LX9Q3LN-B
			SPST Solid-state DO	D30P-T200MA-DX9Q3LN-B
Cable (2m PVC) 	Emitter	D30P-T200MA-EX9C3L2-C		
	SPST Solid-state LO	D30P-T200MA-LX9C2L2-C		
	SPST Solid-state DO	D30P-T200MA-DX9C2L2-C		
Quick Disconnect (Mini Style) 	Emitter	D30P-T200MA-EX9Q3LN-C		
	SPST Solid-state LO	D30P-T200MA-LX9Q3LN-C		
	SPST Solid-state DO	D30P-T200MA-DX9Q3LN-C		

D30 SENSORS SELECTION GUIDE

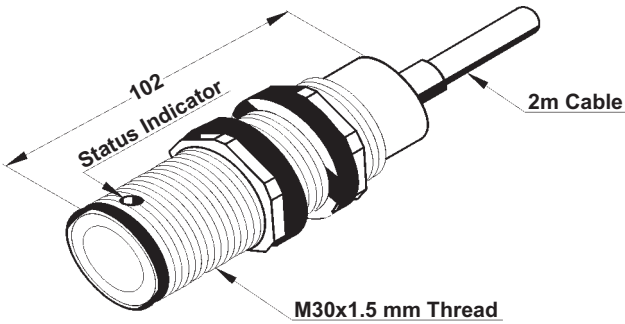
Sensing mode	material	Connection	Output mode	Part number
 <p>Infrared: 880nm</p> <p>200m</p> <p>Through-beam mode Sensing distance: 200m</p>	Brass	Cable (2m PVC) 	Emitter	D30B-T200MA-EX9C3L2-A
			SPST Solid-state LO	D30B-T200MA-LX9C2L2-A
			SPST Solid-state DO	D30B-T200MA-DX9C2L2-A
		Quick Disconnect (Mini Style) 	Emitter	D30B-T200MA-EX9Q3LN-A
			SPST Solid-state LO	D30B-T200MA-LX9Q3LN-A
			SPST Solid-state DO	D30B-T200MA-DX9Q3LN-A
		Cable (2m PVC) 	Emitter	D30B-T200MA-EX9C3L2-B
			SPST Solid-state LO	D30B-T200MA-LX9C2L2-B
			SPST Solid-state DO	D30B-T200MA-DX9C2L2-B
		Quick Disconnect (Mini Style) 	Emitter	D30B-T200MA-EX9Q3LN-B
			SPST Solid-state LO	D30B-T200MA-LX9Q3LN-B
			SPST Solid-state DO	D30B-T200MA-DX9Q3LN-B
Cable (2m PVC) 	Emitter	D30B-T200MA-EX9C3L2-C		
	SPST Solid-state LO	D30B-T200MA-LX9C2L2-C		
	SPST Solid-state DO	D30B-T200MA-DX9C2L2-C		
Quick Disconnect (Mini Style) 	Emitter	D30B-T200MA-EX9Q3LN-C		
	SPST Solid-state LO	D30B-T200MA-LX9Q3LN-C		
	SPST Solid-state DO	D30B-T200MA-DX9Q3LN-C		

## D30 SENSORS SPECIFICATIONS

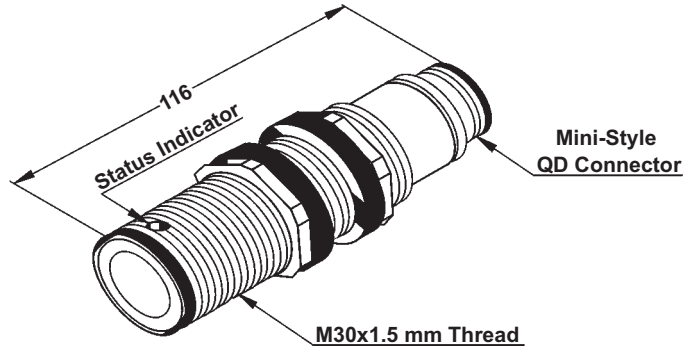
Supply Voltage and Current	Emitters: 12 to 240V AC (50/60 Hz) or 10-30V DC at 20 mA, 10 % maximum ripple DC Receivers: 10 to 30V DC at 10 mA maximum (exclusive of load); 10% maximum ripple AC Receivers: 24 to 240V AC (50/60 Hz)
Supply Protection Circuitry	Protected against reverse polarity and transient voltages
Output Configuration	DC Receivers: PNP (sourcing) or NPN (sinking) output. Selection of sourcing or sinking configuration depends upon receiver's power supply hookup polarity. AC Receivers: Solid-state switch
Output Rating	DC Receivers: 250 mA continuous Output saturation voltage (PNP & NPN configuration) less than 1 volt at 10mA and less than 2 volts at 250 mA Off-state leakage current less than 10 microamps AC Receivers: Maximum steady-state load capability is 500 mA  Inrush capability 10 amps for 1 second (non-repeating) Off-state leakage current less than 1.7 mA rms On-state voltage drop less than 3.5 volts rms across a 500 mA load; less than 5 volts rms across a 15 mA load
Output Protection Circuitry	Outputs of DC receivers are short circuit protected
Output Response Time	10 milliseconds on/off
Repeatability	" A " frequency units: 1 ms " B " frequency units: 1.5 ms " C " frequency units: 2.3 ms
Indicators	Internal red LED lights whenever the DC receiver sees its modulated light source, or whenever the AC receiver's output is conducting. Emitters have red "power on" indicator LED. All indicators are visible through the lens or from side of the sensor.
Construction	30 mm diameter tubular threaded brass and plastic housing, fully epoxy-encapsulated, positive sealing at both ends, quad-ring sealed acrylic.
Environmental Rating	Exceeds NEMA 6P and IEC IP67 standards
Connections	PVC-jacketed 2 m (6.5 ft) cables Mini-style quick disconnect (QD) fitting are available
Operating Temperature	Temperature:-40 to +70 c (-40 to +158 f) Maximum relative humidity: 90% at 50 c (non-condensing)
EMC	IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)
Voltage Withstand Ability	IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure
Insulation Resistance	>20M $\Omega$ , with 1500V AC megger between all supply terminals connected together and enclosure
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each

## D30 SENSORS DIMENSIONS

### Cable

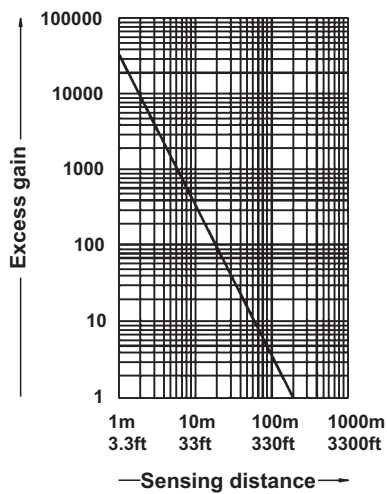


### Quick Disconnect (pico style)



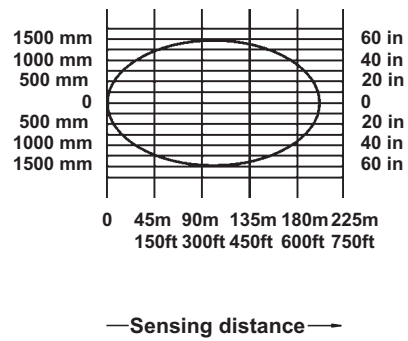
## SENSING FIELDS (TYPICAL)

Excess Gain



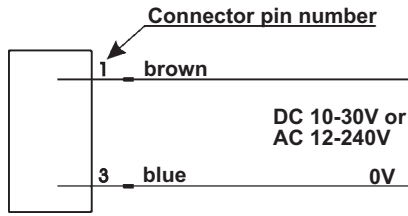
Beam Pattern

Effective Beam: 19 mm

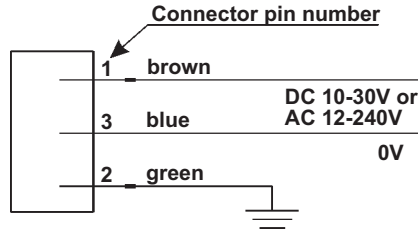


## D30 SENSORS CONNECTION DIAGRAM

### Emitter

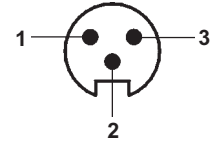


Plastic Housing

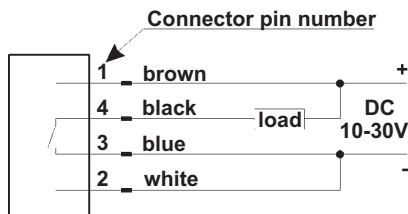


Brass Housing

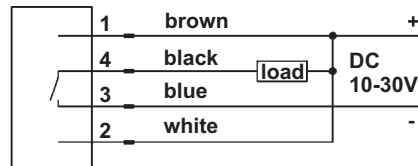
MINI 3-pins style  
(connector face view)



### DC Receivers: NPN



Dark Operate

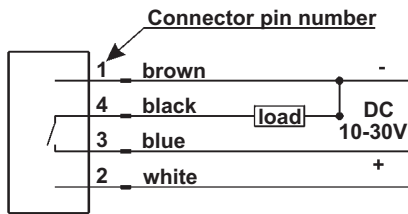


Light Operate

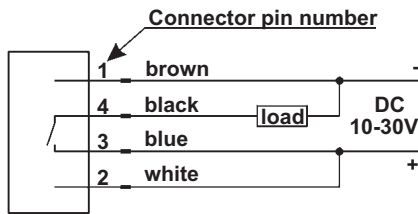
MINI 4-pins style  
(connector face view)



### DC Receivers: PNP



Dark Operate

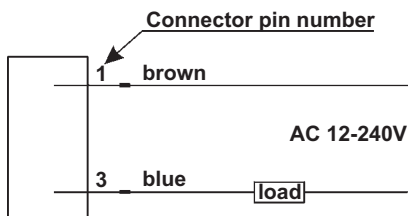


Light Operate

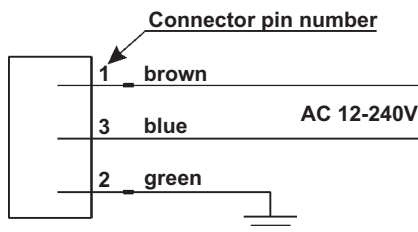
MINI 4-pins style  
(connector face view)



### AC Receivers



Plastic Housing



Brass Housing

MINI 3-pins style  
(connector face view)

