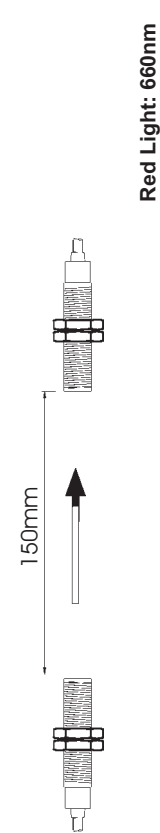






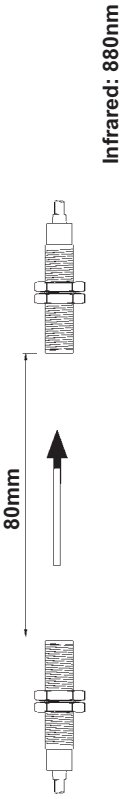








M8 SENSORS SELECTION GUIDE (DC)

Sensing mode	material	Connection	Output mode	Part number	
<p style="text-align: center;">Through-beam mode Sensing distance: 150MM</p>  <p style="text-align: center;">Red Light: 660nm</p>	Stainless Steel	 Cable CE	EMITTER	M8S-T0150D-EX6C2L2	
			NPN TYPE,LIGHT ON	M8S-T0150N-LX6C3U2	
			NPN TYPE,DARK ON	M8S-T0150N-DX6C3U2	
			PNP TYPE,LIGHT ON	M8S-T0150P-LX6C3U2	
			PNP TYPE,DARK ON	M8S-T0150P-DX6C3U2	
		 Quick Disconnect (M8) CE	EMITTER	M8S-T0150D-EX6Q4LP	
			NPN TYPE,LIGHT ON	M8S-T0150N-LX6Q4UP	
			NPN TYPE,DARK ON	M8S-T0150N-DX6Q4UP	
			PNP TYPE,LIGHT ON	M8S-T0150P-LX6Q4UP	
			PNP TYPE,DARK ON	M8S-T0150P-DX6Q4UP	
		 Pico 3 Pins 6" Pig tail CE	EMITTER	M8S-T0150D-EX6P3LP	
			NPN TYPE,LIGHT ON	M8S-T0150N-LX6P3UP	
	NPN TYPE,DARK ON		M8S-T0150N-DX6P3UP		
	PNP TYPE,LIGHT ON		M8S-T0150P-LX6P3UP		
	PNP TYPE,DARK ON		M8S-T0150P-DX6P3UP		
	Brass		 Cable CE	EMITTER	M8B-T0150D-EX6C2L2
				NPN TYPE,LIGHT ON	M8B-T0150N-LX6C3U2
		NPN TYPE,DARK ON		M8B-T0150N-DX6C3U2	
		PNP TYPE,LIGHT ON		M8B-T0150P-LX6C3U2	
		PNP TYPE,DARK ON		M8B-T0150P-DX6C3U2	
		 Quick Disconnect (M8) CE	EMITTER	M8B-T0150D-EX6Q4LP	
			NPN TYPE,LIGHT ON	M8B-T0150N-LX6Q4UP	
			NPN TYPE,DARK ON	M8B-T0150N-DX6Q4UP	
			PNP TYPE,LIGHT ON	M8B-T0150P-LX6Q4UP	
PNP TYPE,DARK ON			M8B-T0150P-DX6Q4UP		
 Pico 3 Pins 6" Pig tail CE		EMITTER	M8B-T0150D-EX6P3LP		
		NPN TYPE,LIGHT ON	M8B-T0150N-LX6P3UP		
	NPN TYPE,DARK ON	M8B-T0150N-DX6P3UP			
	PNP TYPE,LIGHT ON	M8B-T0150P-LX6P3UP			
		PNP TYPE,DARK ON	M8B-T0150P-DX6P3UP		

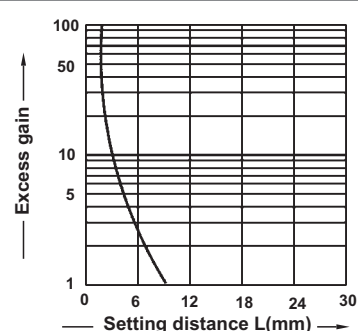
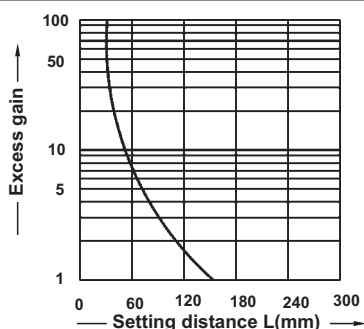
M8 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number	
<p style="text-align: center;">Through-beam mode Sensing distance: 80MM</p>  <p style="text-align: center;">Infrared: 880nm</p>	Stainless Steel	 Cable CE	EMITTER	M8S-T0080D-EX9C2L2	
			NPN TYPE,LIGHT ON	M8S-T0080N-LX9C3U2	
			NPN TYPE,DARK ON	M8S-T0080N-DX9C3U2	
			PNP TYPE,LIGHT ON	M8S-T0080P-LX9C3U2	
			PNP TYPE,DARK ON	M8S-T0080P-DX9C3U2	
			EMITTER	M8S-T0080D-EX9Q4LP	
		 Quick Disconnect (M8) CE	NPN TYPE,LIGHT ON	M8S-T0080N-LX9Q4UP	
			NPN TYPE,DARK ON	M8S-T0080N-DX9Q4UP	
			PNP TYPE,LIGHT ON	M8S-T0080P-LX9Q4UP	
			PNP TYPE,DARK ON	M8S-T0080P-DX9Q4UP	
			 Pico 3 Pins 6" Pig tail CE	EMITTER	M8S-T0080D-EX9P3LP
				NPN TYPE,LIGHT ON	M8S-T0080N-LX9P3UP
	NPN TYPE,DARK ON	M8S-T0080N-DX9P3UP			
	PNP TYPE,LIGHT ON	M8S-T0080P-LX9P3UP			
	PNP TYPE,DARK ON	M8S-T0080P-DX9P3UP			
	Brass	 Cable CE		EMITTER	M8B-T0080D-EX9C2L2
			NPN TYPE,LIGHT ON	M8B-T0080N-LX9C3U2	
			NPN TYPE,DARK ON	M8B-T0080N-DX9C3U2	
			PNP TYPE,LIGHT ON	M8B-T0080P-LX9C3U2	
			PNP TYPE,DARK ON	M8B-T0080P-DX9C3U2	
			EMITTER	M8B-T0080D-EX9Q4LP	
		 Quick Disconnect (M8) CE	NPN TYPE,LIGHT ON	M8B-T0080N-LX9Q4UP	
			NPN TYPE,DARK ON	M8B-T0080N-DX9Q4UP	
			PNP TYPE,LIGHT ON	M8B-T0080P-LX9Q4UP	
PNP TYPE,DARK ON			M8B-T0080P-DX9Q4UP		
 Pico 3 Pins 6" Pig tail CE			EMITTER	M8B-T0080D-EX9P3LP	
			NPN TYPE,LIGHT ON	M8B-T0080N-LX9P3UP	
	NPN TYPE,DARK ON	M8B-T0080N-DX9P3UP			
	PNP TYPE,LIGHT ON	M8B-T0080P-LX9P3UP			
	PNP TYPE,DARK ON	M8B-T0080P-DX9P3UP			

M8 SENSORS SPECIFICATIONS

Item	Type	Through beam	
Light Source		Red Light: 660nm	Infrared Light: 880nm
Sensing range		150mm	80mm
Sensing object		_____	
Hysteresis		_____	
Supply Voltage		10 to 30V DC Ripple P-P 10% or less	
Current consumption		30mA or less	
Output		<NPN> output type> NPN open-collector transistor <ul style="list-style-type: none"> Applied voltage: 30V DC or less Maximum sink current: 150mA Voltage drop: 2.5V or less 	<PNP> output type> PNP open-collector transistor <ul style="list-style-type: none"> Applied voltage: 30V DC or less Maximum source current: 150mA Voltage drop: 2.5V or less
Output operation		Light ON or Dark ON	
Short-circuit protection		Yes	
Reverse polarity protection		Yes	
Overload current protection		Yes	
Response time		0.1ms	
Operation indicator		Receiver: Red LED light up when the output is activated, Emitter: Red LED light up when the power is on.	
Protection		IP67(IEC)	
Ambient temperature		-20 to 70°C	
Ambient humidity		35 to 85% RH,Storage:35 to 85% RH	
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		>20MΩ, 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	
Emitting element		Red LED (modulated)	Infrared LED (modulated)
Material		Plastic or Brass	
Cable		Cable 2m long with three conductors	
Pigtail type		See page Q-01 for cable and connect at pigtail	

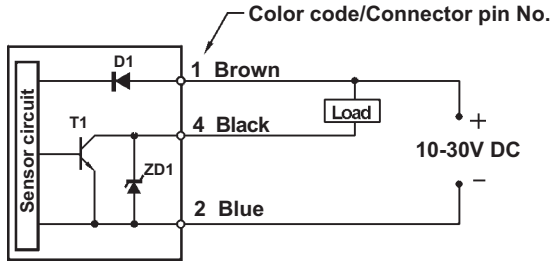
Sensing fields (typical)



M8 SENSORS CIRCUIT AND WIRING DIAGRAMS

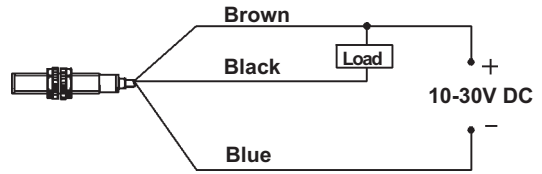
Receiver: NPN output

I/O circuit diagram

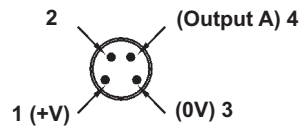


Symbol D1: Reverse polarity protection diode
 ZD1: Surge absorption zener diode
 T1: NPN output transistor

Wiring diagram

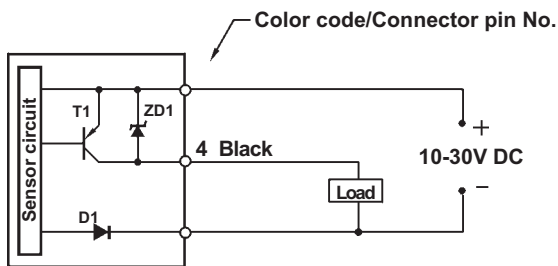


Connector face view
 PICO-Style



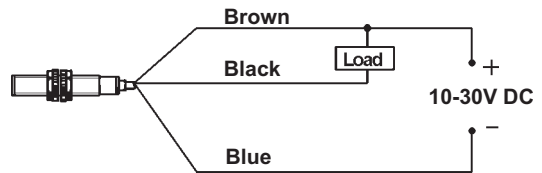
Receiver: PNP output

I/O circuit diagram

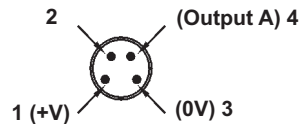


Symbol D1: Reverse polarity protection diode
 ZD1: Surge absorption zener diode
 T1: NPN output transistor

Wiring diagram

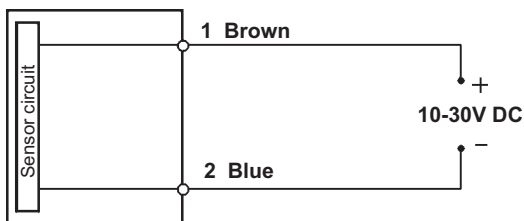


Connector face view
 PICO-Style

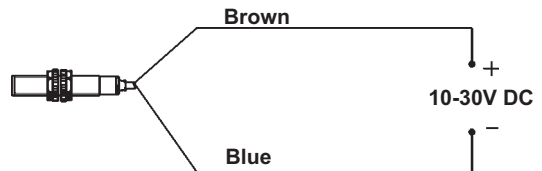


Emitter:

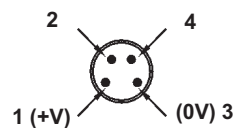
I/O circuit diagram



Wiring diagram

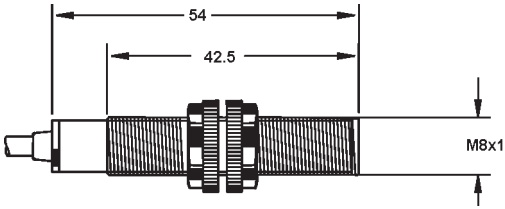


Connector face view
 PICO-Style

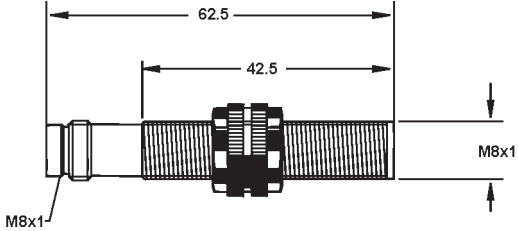


M8 SENSORS DIMENSIONS

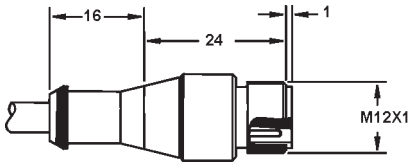
X-state, Cable version



X-state, PICO-style quick connector



EURO-style quick connector for Pig-tail series



EURO-style quick connector for Pig-tail series

