

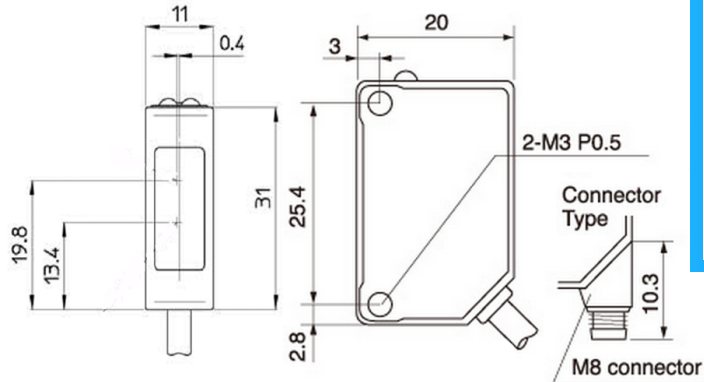
Mini Laser Sensor - TLS Series

Features:

- ✓ 250μ sec Response
- ✓ 2mm Spot Size at 40cm (10mm at 8m)
- ✓ Light/Dark On Selectable
- ✓ IP 67 Protection



Dimensions:



Specifications:

Type		Thru-beam	Polarized Retro-reflective	Diffuse-reflective
Cable	PNP	TLS0002	TL S0004	TLS0006
	NPN			
M8 connector	PNP	TLS0001	TL S0003	TLS0005
	NPN			
Supply voltage		DC10..30V		
Power consumption		30mA max.	20mA max.	
Sensing distance		30meter	10meter	40cm
Spot size		30mm/30m	10mm/8m	2mm/40cm
Response time		250μsec		
Light source		Laser 650nm (visible light - Red)		
Laser class		class 1	class 2	
Ambient temperature		Operation: -10 .. +50°C / Storage: - 25.. +70°C		
Shock resistance		50 G (500 m/s²)		
Protection category		IP67		
Ambient humidity		Operation: 35..85% / Storage: 35..95%		
Operation indication		Laser ON - Green LED; Output ON - Orange LED		
Operating mode		Light On / Dark On (selectable switch)		
Sensitivity adjustment		Single turn potentiometer		
Material housing		ABS		
Connection		2m cable / M8-4pins connector		

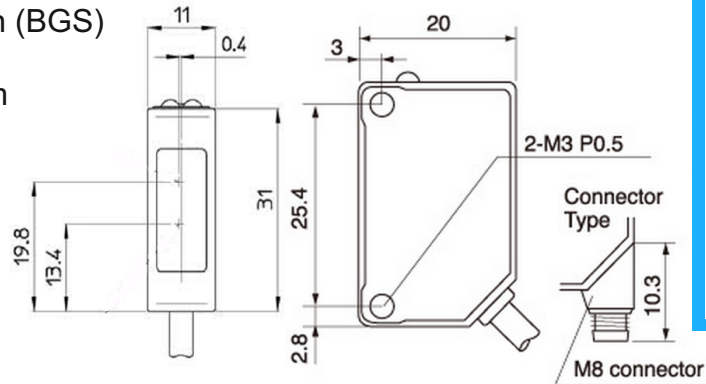
Mini Laser Sensor with BackGround Suppression (BGS)

Features:

- ✓ BackGround Suppression (BGS)
- ✓ 250μ sec Response
- ✓ 1,5mm Spot Size at 30cm
- ✓ Light/Dark On Selectable
- ✓ IP 67 Protection



Dimensions:



Specifications:

Type		Diffuse-reflective BGS
M8 connector	PNP	TLS0007
	NPN	TLS0009
Supply voltage		DC10..30V
Power consumption		30mA max.
Sensing distance		10..300mm
Adjustable distance		50..300mm
Spot size		1,5mm/300mm
Response time		250μsec
Light source		Laser 650nm (visible light - Red)
Laser class		class 1
Ambient temperature		Operation: -10 .. +50°C / Storage: - 25..+70°C
Shock resistance		50 G (500 m/s ²)
Protection category		IP67
Ambient humidity		Operation: 35..85% / Storage: 35..95%
Operation indication		Laser ON - Green LED; Output ON - Orange LED
Operating mode		Light On / Dark On (selectable switch)
Sensitivity adjustment		4-turn potentiometer
Material housing		ABS
Connection		2m cable / M8-4pins connector