



IRS

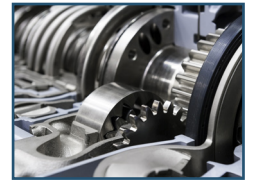
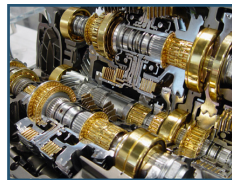
Infrared Optical Sensor

Features:

- On-Target Indicator
- Measure up to 1,000,000 RPM
- Includes mounting bracket and hardware
- Includes cable with integrated watertight M12 connector
- Choose tinned wires or 1/8" phone plug connection
- Compatible with all Monarch tachometers and stroboscopes

Common Usage:

- High-speed drills, slots or gear teeth applications including dentistry tools
- Black/white contrasting colors (does not require reflective tape)



The Infrared Optical Sensor has an invisible infrared light source that is ideal for working up to 0.5 in. [12 mm] from high-speed equipment or other applications providing only contrasting light and dark surfaces or beam interruption by solid objects as small as 0.039 in. [1 mm]. The sensor is housed in a threaded 303 stainless steel tube and supplied with a 90-degree angle aluminum-mounting bracket and two M16 jam nuts. The IRS is supplied with an 8 ft. [2.4 m] cable terminated with a 1/8 inch [3.5 mm] male stereo plug (IRS-P) or 4 tinned wires (IRS-W). An optional 25 ft. [7.6 mm] extension cable EC-25P is available with a female socket for the plug on one end, and a 1/8 inch [3.5 mm] male stereo plug on the other.



IRS Infrared Sensor



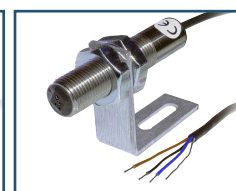
Specifications*	IRS-P and IRS-W Infrared Sensor
Speed Range	1-1,000,000 RPM
Illumination	Infrared LED (not visible)
On Target Indicator	Red/green LED on the wire end cap
Target	Contrasting colors or beam interrupt
Operating Range	Up to 0.5 inch [12 mm] from target
Power Requirement	3.3 - 15 V dc @ 40 mA
Output Signal	Negative pulse input voltage (+V) to 0
Operating Temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Humidity	Maximum relative humidity 80% for temperature up to 88 °F (31 °C) decreasing linearly to 50% relative humidity at 104 °F (40 °C), humidity must be non-condensing
Connection	1/8 in. [3.5 mm] male stereo plug (IRS-P) Tinned wires (IRS-W)
Cable Length	8 ft. [2.4 m]
Materials	303 stainless steel tube supplied with mounting bracket and two M16 jam nuts
Dimensions	Threaded tube: 2.90 in. x 0.625 in. diameter [M16 x 1.5 x 74 mm] long

Ordering Information	
IRS-P	6180-020
Infrared sensor with 8 ft. cable with 3.5 mm plug and mounting bracket	
IRS-W	6180-021
Infrared sensor with 8 ft. cable with tinned wires and mounting bracket	

To order, see product's webpage.



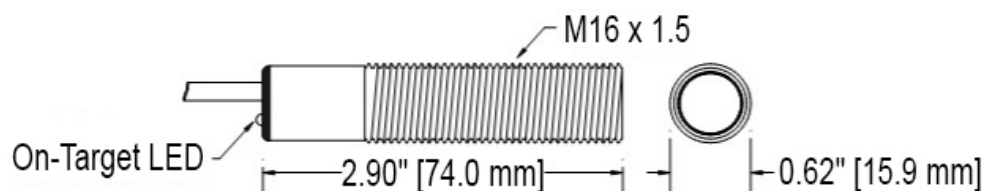
IRS-P



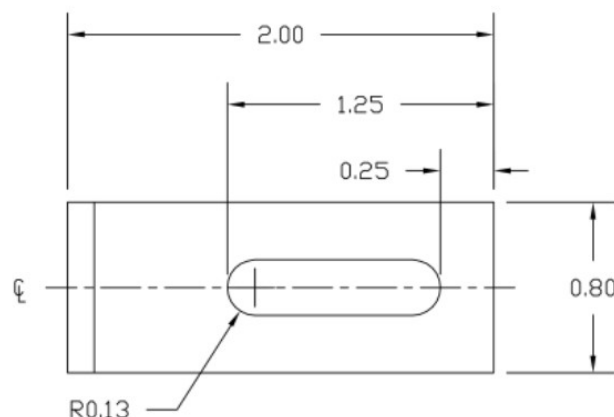
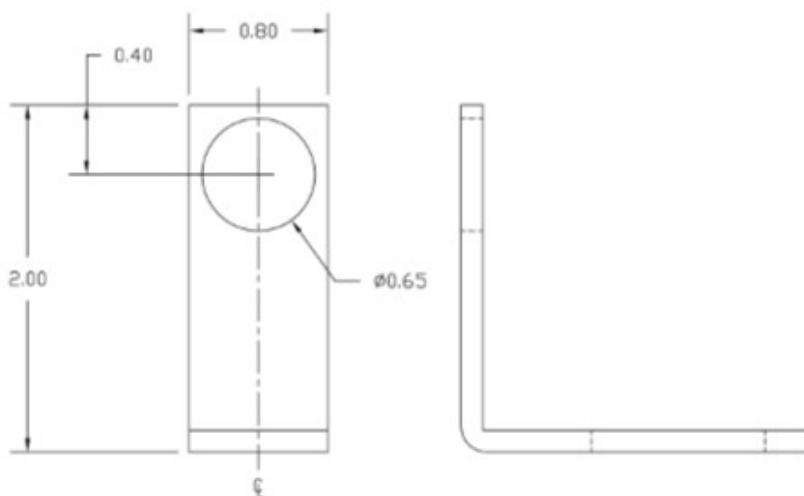
IRS-W

*Specifications are subject to change without notice.

Dimensions



Dimensions of Mounting Brackets [inches]



IRS 1221



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