

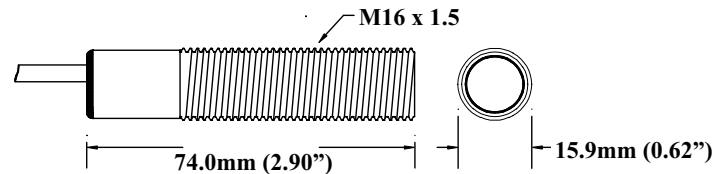


# ROS-HT-W-25 High Temperature Remote Optical Sensor



## SPECIFICATIONS:

<b>Speed Range:</b>	1 to > 50,000 RPM at 24" [.61 m]
<b>Illumination:</b>	Incandescent lamp
<b>Operating Temp.:</b>	-13° to 257° F [-25° to 125° C]
<b>Operating Range:</b>	up to 24" [0.76 m] and 30 degrees from target
<b>Power Requirement:</b>	6 - 24 Vdc @ 40mA
<b>Output Signal:</b>	Positive pulse 0 to input voltage (+V)
<b>Cable Length:</b>	25 feet [7.6 m]
<b>Connection:</b>	Tinned wires
<b>Material:</b>	303 Stainless Steel supplied with two M16 Jam Nuts and Mounting Bracket
<b>Lens:</b>	Glass Pyrex
<b>Dimensions:</b>	Threaded Tube 2.90 in x 0.62 in diameter [M16 x 1.5 x 74 mm] long



## CONNECTION DETAIL:

<u>Wire Color</u>	<u>Function</u>	
Red	Positive Power Supply	(+V)
Black	Common	(Com)
White	Signal (0 to + Vdc Pulse)	(Sig)
Shield	Housing Ground	(Com)



## OPERATING INSTRUCTIONS:

The ROS-HT-W-25 High Temperature Remote Optical Sensor is capable of detecting a reflected pulse from a target consisting of Reflective Tape at distances of up to 24 inches [.76 m] from the rotating object and angles up to 30 degrees. For most applications, a ½" [12 mm] square piece of Reflective Tape (T-5) should be applied to a clean area on the rotating object.

NOTE: The T-5 tape supplied with the ROS-HT-W-25 is rated at 175 °F [79.4 °C] for continuous exposure and 250 °F [121 °C] for intermittent exposure (30 minutes). Higher temperature rated tape available upon request.

The Sensor should be mounted and optically aligned to illuminate the target once per revolution. The user must hold "steady" or mount the ROS-HT-W-25 to obtain an accurate measurement. It is recommended that the optical Sensor be placed at a slight angle (15 degrees) from perpendicular, so that the Sensor will receive only pulses from the reflective marker. The ROS-HT-W-25 should be at least 1 inch from the reflective target to avoid false triggering.

The ROS-HT-W-25 will work with all Monarch panel instruments that accept pulse inputs (e.g. ACT Series).

## CAUTION: DO NOT HANDLE SENSOR AT ELEVATED TEMPERATURES.

Correct operation of the ROS-HT-W-25 can be checked at any time by aiming it at an original design fluorescent light and observing a 120 Hz or 100 Hz (two times your mains frequency) square wave on the signal output. If the sensor is being used with a tachometer, the tachometer will read 7200 RPM or 6000 RPM. The Sensor will not pick up newer "energy efficient" design fluorescent lights.

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