

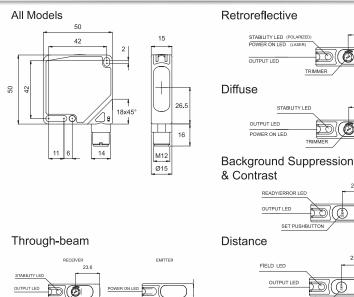
H60 Series - Advanced Performance Photoelectric Sensor **Image Series Description** Modes Ranges Through Beam 0...20m **Advanced Performance** Retroreflective 0.1...20m **Photoelectric Sensor** Standard 50 x 50mm Housing Diffuse 5...2000mm Rotatable M12 Connector **Background Suppression** 7...200mm High Quality Contrast 19mm Many Operating Modes Available Distance 50...150mm

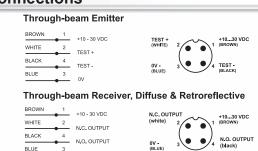
Ordering Information

Through-beam (30m range)			Polarized Retroreflective	
020m (65.6 ft.)	0.0052m (6.56 ft.)	00.6m (1.97 ft.)	0.18m (26.2 in.)	
Infrared LED, 880nm	Red LED, 880nm	Red Laser, 650nm	Red LED, 600nm	
H60-THRU-E-PO-4Q				
H60-THRU-R-NO-4Q	H60-DIF-NO-4Q	H60-LASER-D-NO-4Q	H60-RETRO-NO-4Q	
H60-THRU-R-PO-4Q	H60-DIF-PO-4Q	H60-LASER-D-PO-4Q	H60-RETRO-PO-4Q	
	(30m range) 020m (65.6 ft.) Infrared LED, 880nm H60-THRU-E-PO-4Q H60-THRU-R-NO-4Q	(30m range) 020m (65.6 ft.) Infrared LED, 880nm Red LED, 880nm H60-THRU-E-PO-4Q H60-THRU-R-NO-4Q H60-DIF-NO-4Q	(30m range) 020m (65.6 ft.) 120m (65.6	

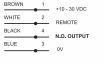
Mode	Laser Retroreflective	Background Suppression	Contrast	Distance	
Operating Range 0.120m (65.6 ft.)		0.0070.2m (7.87 in.)	19mm (0.75 in.)	50150mm (5.9 in.)	
Light Emission	Red Laser, 650nm	Red LED, 670nm	White LED, 400-700nm	Red LED, 670nm	
Part Numbers					
NPN	H60-LASER-R-NO-4Q	LASER-R-NO-4Q H60-BGS-NO-4Q H		H60-DISTANCE-NO-4Q	
PNP	H60-LASER-R-PO-4Q	H60-BGS-PO-4Q	H60-CONTRAST-PO-4Q	H60-DISTANCE-PO-4Q	

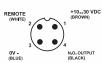
Dimensions Connections





Background Suppression & Contrast





Distance

BROWN	1	+10 - 30 VDC	F
WHITE	2	ANALOG OUTPUT	
BLACK	4	NO OUTPUT	
BLUE	3	0V	



NO OUTPUT

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TECHNICAL DATA

	Through-	Diff	use	Retroreflective		DCC	Contract	Diotonos
	beam	Standard	Laser	Polarized	Laser	BGS	Contrast	Distance
Power Supply:				1030 VDC				1830 VDC
Ripple:				≤ 2	Vpp			
Current Consumption:	≤ 35 mA	≤ 40 mA	≤ 35 mA	≤ 40 mA	≤ 35 mA	≤ 30 mA	≤ 30 mA	≤ 60 mA
Spot Dimension:	approx. 200 mm at 4m	approx. 250mm at 1m	approx. 0.2mm @ 15cm approx. 2mm @ 50cm	approx. 90mm at 3m	approx. 10mm	approx. 16mm at 200mm	approx. 3.5mm at 19mm	approx. 16 mm at 150mm
Setting:	sensitivity trimmer				ри	ing		
Indicators:	yellow: OUTPUT LED green: STABILITY LED green (emitter): POWER ON LED	yellow: OUTPUT LED green: STABILITY LED	yellow: OUTPUT LED green: POWER ON LED	yellow: OUTPUT LED green: STABILITY LED	yellow: OUTPUT LED green: POWER ON LED	yellow: OUTPUT LED green / red READY / ERROR LED		yellow: OUTPUT LED red: FIELD LED
Output Type:	PNP, N.O. and N.C. / NPN, N.O. and N.C. PNP, N.O				PNP, N.O. / NPN, N.O.			
Output Current:	≤ 100 mA							
Saturation Voltage:	≤ 2 V							
Response Time:	1 ms	500 μs	250 µs	500 µs	250 µs	500 µs	100 µs	1 ms
Switching Frequency:	500 Hz	1 kHz	2 kHz	1 kHz	2 kHz	1 kHz	5 kHz	500 Hz
Operating Mode:	dark on N.O. / light on N.C.	light on N.O. / dark on N.C.		dark on N.O. / light on N.C.		dark / light configurable	automatic dark / light fine acquisition	automatic dark / light fine acquisition configurable direct / inverse proportionality
Timing Function:	20 ms - minimum output ON					-		
Auxiliary Functions:	Test + and Test -					-		
Connection:	M12, 4-pin (9	90° rotatable) -	Recommended	Mating Cable: p	oart # R-FS4TZ-	V075 (straight),	R-FA4TZ-V075	(right-angle)
Electrical Protection:				clas	ss 2			
Mechanical Protection:	IP67							
Protection Devices:	Reverse Polarity, Overload, Short-circuit Protection							
Housing Material:				AE	3S			
Lens Material:	External - PMMA, Internal - Polycarbonate G				Glass	External - PMMA, Internal - Polycarbonate		
Operating Temperature:	-25+55°C							
Storage Temperature:	-25+70°C							
Reference Standard:		EN 60	0947-5-2 (Laser M	odels: FN 60947-	5-2 EN 60825-1	CDRH21 CER 10	40 10)	

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