

OM70-P1500.HV1500.EK

Distance sensors - high performance

Article number: 11216514

overview

- Adjustable reference distance (zero point position)
- Intuitive limitation of the measuring range
- Configurable switching output
- Selectable filters and trigger modes
- Additional data such as signal quality on request
- Export and import function for parameter sets





Technical data	
general data	
type	distance measuring
version	OM70 laser point basic
measuring distance Sd	150 1500 mm
measuring range Mr	1350 mm
sweet spot	1500 mm
adjustment	Webserver, Ethernet TCP/IP
power on indication	LED green
output indicator	LED yellow / LED red
ethernet link indication	LED blue
resolution	13 125 μm
repeat accuracy	3 63 μm
linearity error	± 0,32 % Mr
light source	pulsed red laser diode
wave length	660 nm
laser class	2
beam type	point
temperature drift	0,100 % So/K
hysteresis digital output	adjustable
electrical data	
response delay	0,8 ms
measuring frequency	2000 Hz
voltage supply range +Vs	15 28 VDC
current consumption max. (no load)	75 mA
output circuit	analog and digital
output signal	4 20 mA / 2 10 mA / 0 10 VDC / 0 5 VDC

electrical data	
output current	< 100 mA
switching output	push-pull
short circuit protection	yes
reverse polarity protection	yes, Vs to GND
interface	Ethernet TCP/IP
protocol	Profinet, Modbus TCP, OPC UA, UDP streaming
webserver	yes
mechanical data	
width / diameter	26 mm
height / length	74 mm
depth	55 mm
type	rectangular, front view
housing material	aluminum
front (optics)	glass
connection types	connector M12 8 pin & M12 4 pin
weight	135 g
ambient conditions	
ambient light immunity	< 35 kLux
operating temperature	-10 +50 °C
protection class	IP 67
storage temperature	-20 +60 °C
vibration (sinusoidal)	IEC 60068-2-6:2008
	1 mm p-p at f = 10 - 55 Hz, duration 5 min per axis 30 min endurance at f = 55 Hz per axis
shock (semi-sinusoidal)	IEC 60068-2-27:2009 30 g / 11 ms, 6 jolts per axis and direction

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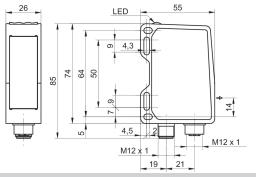
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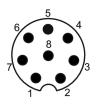
remarks

 Measurement with Baumer standardized measuring equipment and targets (Measurement on 90% remission (white)). Values of Resolution, linearity error and repeat accuracy apply to a measurement with filter setting (Median: 9, Average: 128).

dimension drawing

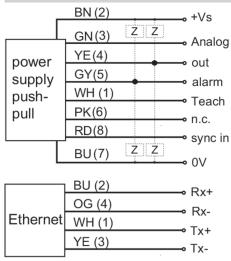


pin assignment

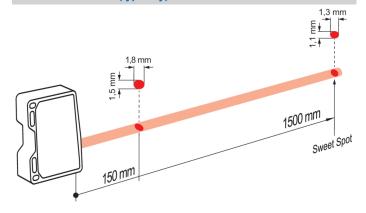




connection diagram



beam characteristic (typically)



laser warning



LASER RADIATION
DO NOT STARE INTO BEAM
Wavelength: 640...670nm

IEC 60825-1, Ed. 3, 2014 CLASS 2 LASER PRODUCT

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007