Distance sensors

OM70-P1500.HV1500.EK

Article no.: 11216514

Distance sensors - high performance

- 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



Share

Technical data Downloads Diagrams Drawings Accessories

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
temperature unit	0,100 % 00,10

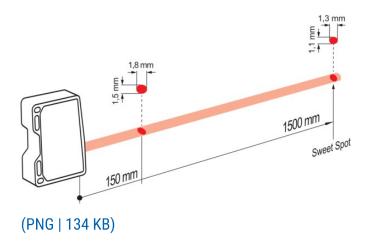
electrical data

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
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

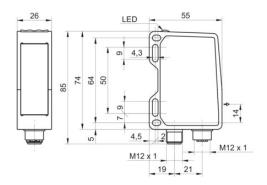
Downloads

Data sheet - OM70-P1500.HV1500.EK	DE (PDF 2 MB)
	EN (PDF 2 MB)
	FR (PDF 2 MB)
	ZH (PDF 2 MB)
MAL	
m_om70p1500hv1500ek.pdf	EN/DE/FR (PDF 556 KB)
Installation and operating instructions	
BA OM70 Ethernet PL distance	DE (PDF 3 MB)
BA OM70 Ethernet PL distance	EN (PDF 3 MB)
Certificates / approvals	
DoC / CoC - 0M70	DE/EN/FR (PDF 210 KB)
Software	
Software – GSDML product description file OM70- LPx.x.EK	(ZIP 9 KB)
3D CAD	
OM70 Ethernet / IGES / STEP / PARASOLIDS	Download igs (ZIP 492 KB)
	Download stp (ZIP 269 KB)
	Download x_t (ZIP 268 KB)



Drawings

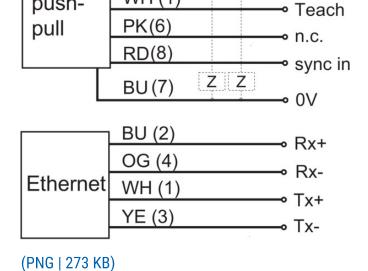
dimension drawing



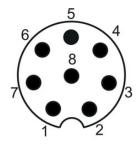
(PNG | 95 KB)

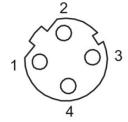
connection diagram





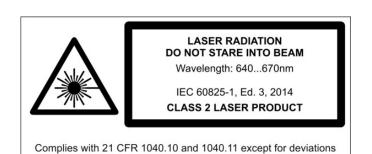
pin assignment





(PNG | 110 KB)

laser warning



(PNG | 174 KB)

Accessories

peripherals



11084376

Test unit for sensors analog & digital, Peripherals Article no.: 11084376

- Output via display (V or mA) or LED (PNP/NPN)
- Teach-in of sensors with integrated
 Teach- button
- Connection for plug in power supply (available as accessory)



11087165

Test unit for sensors, Peripherals

Article no.: 11087165

- Input 90-260VAC
- Output 24V/0,75 A
- Interchangeable plug-Type A, C, G and I

mounting accessories



11120705

Mounting bracket X7 90° for PosCon and OM70, incl. accessories, Mounting accessories

Article no.: 11120705

Fitting for PosCon

and OM70

- Mounting at an angle of 90°
- Bracket and mounting hardware incl. Torx wrench

connectors and mating connectors



ESG 34FH0200G

Connector M12, 8 pin, straight, 2 m, shielded, Connectors and mating connectors $\,$

Article no.: 10127844

- connecting cable for connector type M12
- 2 m
- shielded
- suitable for flexible cable carriers



ESG 34FH0500G

Connector M12, 8 pin, straight, 5 m, shielded, Connectors and mating connectors

Article no.: 10129332

- connecting cable for connector type M12
- 5 m
- shielded
- suitable for flexible cable carriers



ESG 34FH1000G

Connector M12, 8 pin, straight, 10 m, shielded, Connectors and mating connectors

Article no.: 10129333

- connecting cable for connector type M12
- 10 m

- shielded
- suitable for flexible cable carriers



ESW 33FH0200G

Connector M12, 8 pin, angular, 2 m, shielded, Connectors and mating connectors

Article no.: 11053961

- connecting cable for connector type M12
- 2 m
- shielded
- suitable for flexible cable carriers



ESW 33FH0500G

Connector M12, 8 pin, angular, 5 m, shielded, Connectors and mating connectors

Article no.: 11053962

- connecting cable for connector type M12
- 5 m
- shielded
- suitable for flexible cable carriers



ESW 33FH1000G

Connector M12, 8 pin, angular, 10 m, shielded, Connectors and mating connectors

Article no.: 10170054

- connecting cable for connector type M12
- 10 m
- shielded
- suitable for flexible cable carriers



KSG 34A/KSG45AP0200G/E

Ethernet cable; connector M12, straight to RJ45 mating connector, 4-pin, 2 m, shielded, Connection cables

Article no.: 11048502

 extension cord for connector female M12





Ethernet cable; connector M12, straight to RJ45 mating connector, 4-pin, 5 m, shielded, Connection cables

Article no.: 10165276



• 5 m

2 mshielded

shielded



KSG 34A/KSG45AP1000G/E

Ethernet cable; connector M12, straight to RJ45 mating connector, 4-pin, 10 m, shielded, Connection cables

Article no.: 11051929

- extension cord for connector female M12
- 10 m
- shielded