

OM70-L0140.HH0130.VI

Distance sensors - high performance

Article number: 11112019

overview

- Touch display with Live Monitor function
- Configurable switching output
- Selectable filters and trigger modes



Technical data

general data

type	distance measuring
version	OM70 laser line basic
measuring distance Sd	40 ... 140 mm
measuring range Mr	100 mm
sweet spot	130 mm
adjustment	Touch Display, RS485
power on indication	LED green
output indicator	LED yellow / LED red
resolution	1,2 ... 2,5 µm
repeat accuracy	0,3 ... 0,7 µm
linearity error	± 0,07 % Mr
light source	pulsed red laser diode
wave length	660 nm
laser class	1
beam type	line
temperature drift	0,015 % So/K
hysteresis digital output	adjustable

electrical data

response delay	0,8 ms
measuring frequency	2500 Hz
voltage supply range +Vs	15 ... 28 VDC
current consumption max. (no load)	75 mA
output circuit	analog and RS 485

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).

baud rate	115200, adjustable
output signal	4 ... 20 mA / 0 ... 10 VDC
output current	< 100 mA
switching output	push-pull
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

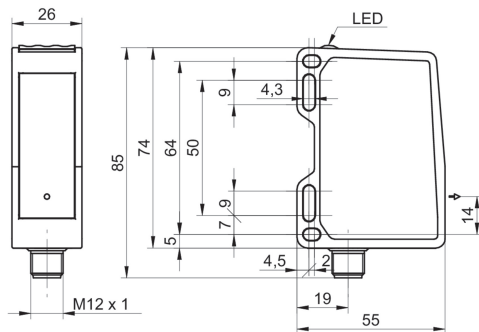
mechanical data

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
weight	130 g

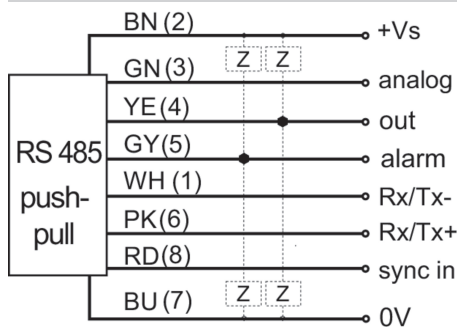
ambient conditions

ambient light immunity	< 35 kLux
operating temperature	-10 ... +50 °C
protection class	IP 67
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

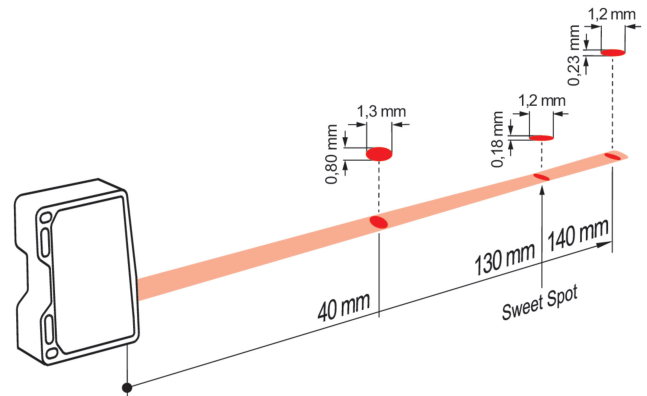
dimension drawing



connection diagram



beam characteristic (typically)



laser warning

**CLASS 1 LASER
PRODUCT**

IEC 60825-1/2014

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

pin assignment

