

Sb = 11 m

- rugged metal housing
- high repeatability
- short response time



general data

type	retro-reflective laser sensor
light source	pulsed red laser diode
polarization filter	yes
alignment / soiled lens indicator	flashing light indicator
light indicator	LED yellow
laser class	1
wave length	675 nm
actual range Sb = 1 m	
nominal range Sn	1,3 m
repeatability	< 0,1 mm at laser focus
sensitivity adjustment	Pot, 270°
distance to laser focus	80 mm

actual range Sb = 11 m	
nominal range Sn	12 m
repeatability	< 1,5 mm at 0 ... 0,5 m
sensitivity adjustment	no
distance to laser focus	400 mm

electrical data

response time / release time	< 0,1 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max.	70 mA
current consumption typ.	60 mA
voltage drop Vd	< 1,8 VDC
output function	light / dark operate
output circuit	PNP
output current	< 200 mA
short circuit protection	yes
reverse polarity protection	yes

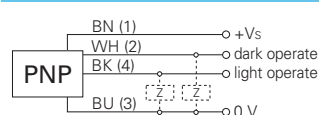
mechanical data

width / diameter	15,4 mm
height / length	50 mm
depth	50 mm
type	rectangular
housing material	die-cast zinc
front (optics)	glass

ambient conditions

operating temperature	-10 ... +50 °C
protection class	IP 67

connection diagram



connectors

ESG 34AH0200	4 pin	2 m straight
ESW 33AH0200	4 pin	2 m angular

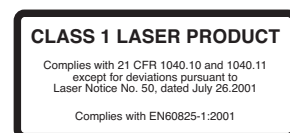
additional cable connectors and field wireable connectors, see accessories

accessories

SENSOFIX mounting kit	151721
mounting bracket	113917
lens cleaning air nozzle bracket	116407

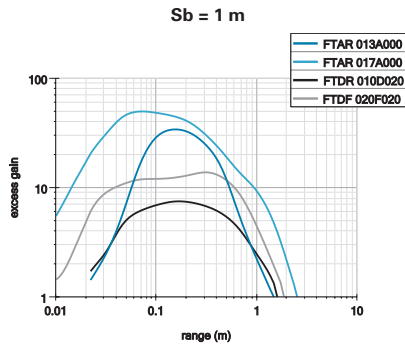
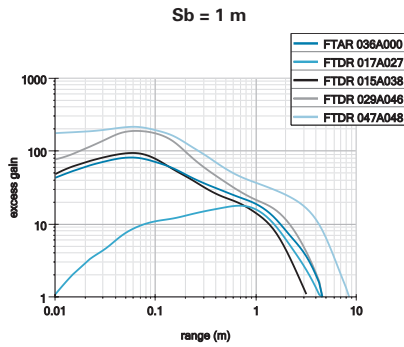
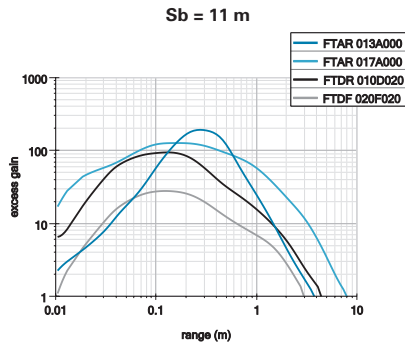
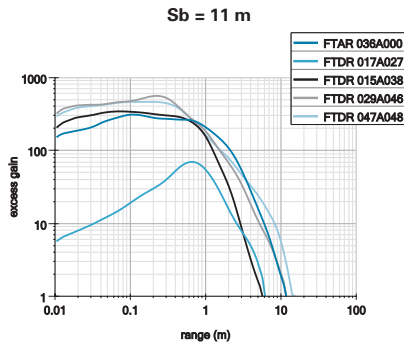
for details, see accessories section

laser warning



order reference	actual range Sb	connection types
OPDM 16P5102	11 m	cable 4 pin
OPDM 16P5102/S14	11 m	connector M12, 4 pin
OPDM 16P5103	1 m	cable 4 pin
OPDM 16P5103/S14	1 m	connector M12, 4 pin

excess gain curve



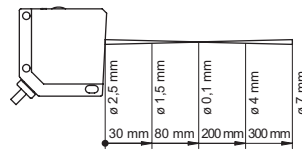
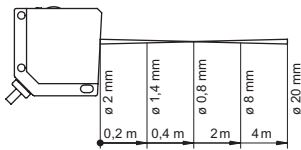
reflectors

FTAR 013A000	ø 15 mm
FTAR 017A000	ø 20,7 mm
FTAR 020A000	ø 25,2 mm
FTAR 036A000	ø 46 mm
FTDF 020F020	tape 20 x 20 mm
FTDR 010D020	15 x 25 mm
FTDR 015A038	18 x 40 mm
FTDR 017A027	20 x 42 mm
FTDR 029A046	32,5 x 48 mm
FTDR 047A048	54 x 75 mm

beam characteristic

Sb = 11 m

Sb = 1 m



dimension drawings

