

Description

- Operation mode and max sensing range:
Thru-beam: Dependent on amplifier (up to 30m)
- M30 nickel-plated brass housing
- Integrated Preamplifier
- High tolerance to hostile environments
- Cable connection
- Wide Range of Photoelectric Amplifiers
- Approval Certificate
No. PTB 03 ATEX 1026
- EX Classification
Ex II 2 G/D EExd IIC T6
*Suitable for zone 1 and zone 21



The remote sensor G 30 EX series, consists of a transmitter LT and receiver LR, is made to operate in conjunction with a Telco photoelectric amplifier from the PA, MPA or PAB programmes.

This series is housed in a robust M30, nickel-plated brass housing, with cable connection, which is intended to be used in thru beam operation mode. The Telco remote sensors G 30 EX series is intended to be installed

on equipment where there is a risk of gas, steam or vapor in combination with air which creates an atmosphere of explosive mixture. The sensors operates in conjunction with a photo amplifier, which is to be mounted outside the EX area.

The receiver consists of a silicon phototransistor with an integrated preamplifier in hybrid technology.

Technical Data		
	LT	LR
Transmitter diode	Ga Al (940 nm)	-
Photo transistor	-	Silicon NPN
Opening angle	+/- 15°	
Housing material	Sensor housing	Nickel Plated Brass
	Front lens	Glass
Estimated Life Time	100.000 hours approx. (12 years approx.)	
Cable, Ø 6 mm Oilflex	2 x 1.5 mm ²	
Min. cable bending radius	60 mm	

Environmental Data	
Vibration	10 – 55 Hz, 1,5 mm
Shock	30 g
Light immunity, @ 20° incidence	40.000 lux
Temperature, operation	- 25 to + 55 °C
Temperature, storage	- 40 to + 80 °C
Sealing class	IP 67
Approval Certificate	PTB 03 ATEX 1026
EX Class	(Ex) d 3n G5 according to VDE 0171 Ex II 2 G/D EExd IIC T6 according to EXC Directive 94/9/EG

Available Types

	Series	Optical angle	Connection		15 m cable
			Housing Material	Housing Type	Order Reference
Transmitter	G 30 EX	+/- 15°	Nickel Plated Brass	M30 x 1	LT G 30 EX 15 ²
Receiver					LR G 30 EX 15 ²

Note: 1. Photo amplifiers to be ordered separately.
 2. Other cable lengths available upon request.

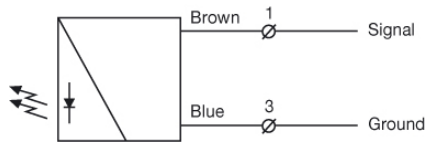
Applicable Photoelectric Amplifiers and Maximum Ranges

Amplifier Series	PA 11	PA 15	MPA 21	MPA 41		MPA 81		PAB 10	PAB 20	PAB 30
				A/B	C/D	A/B	C/D			
Remote Sensor										
G 30 EX	30 m	30 m	18 m	13 m	7 m	13 m	7m	30 m	20 m	20 m

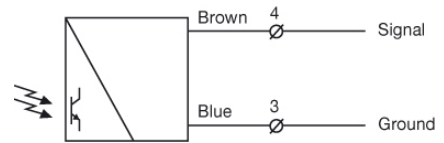
Connections

	Cable
Transmitter Signal	Brown
Transmitter Ground	Blue
Receiver Signal	Brown
Receiver Ground	Blue

Wiring Diagrams

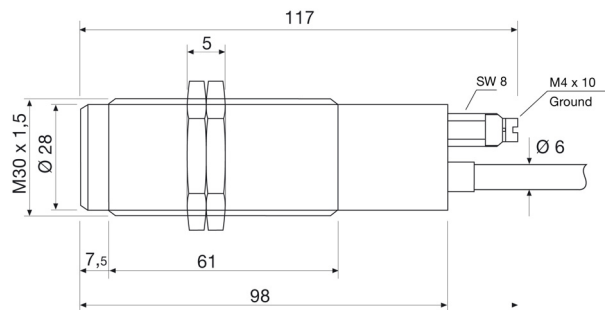


LT G 30 EX



LR G 30 EX

Dimensions



G 30 EX