

TLB Series

▶ TLB-CON12-M8 Pulsating light amplifier

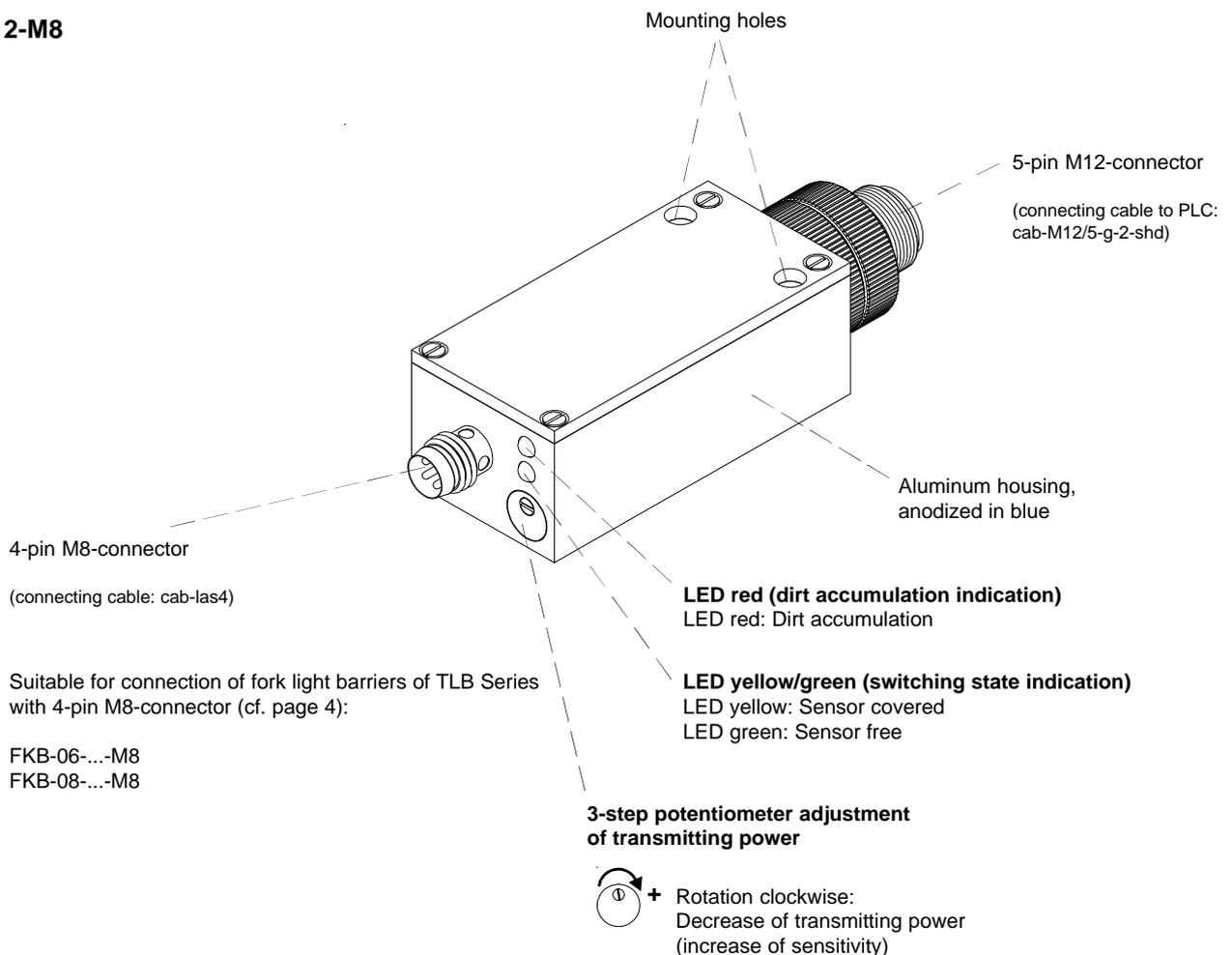
- Insensitive to outside light due to AC operation
- Insensitive to dirt accumulation due to AC operation
- Sensitivity adjustable by means of a potentiometer
- Switching state indication by means of a yellow/green-LED
- Dirt accumulation indication by means of a red LED
- High switching frequency (typ. 10 kHz)
- Bright- and dark-switching
- Push-pull output stage (appropriate for npn and pnp)
- Sturdy aluminum housing
- 4-pin M8-connector for connection with light barrier
- 5-pin M12-connector for connection with interface box



Design

Product name:

TLB-CON12-M8

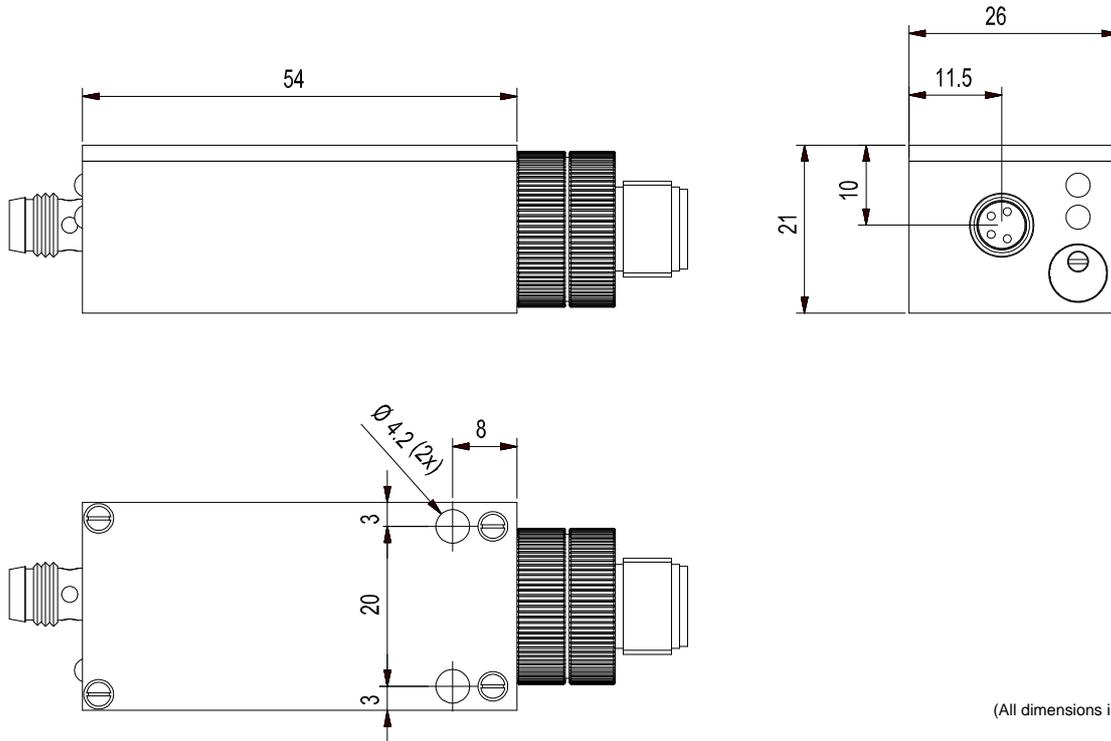




Technical Data

Model	TLB-CON12-M8
Voltage supply	+12VDC ... +32VDC, reversed polarity protection, overload protection
Sensitivity	Adjustable via integrated 3-revolutions potentiometer
Current consumption	typ. 50 mA
EMC test acc. to	IEC - 801... 
Connector type	Connection to PLC: 5-pin M12-connector Connection to TLB light barrier: 4-pin M8-connector
Operating temperature range	-20°C ... +70°C
Storage temperature range	-20°C ... +85°C
Housing	Aluminum, anodized in blue
Max. switching current	100 mA, short circuit protection
Switching frequency	typ. 10 kHz
Outputs	Q: npn dark-switching (npn normally open) / pnp bright-switching (pnp normally closed) Qinv: npn bright-switching (npn normally closed) / pnp dark-switching (pnp normally open)
Switching state display	via yellow/green LED
Dirt accumulation indication	via red LED
AC operation	10 kHz
Mechanical protection	IP67

Dimensions



(All dimensions in mm)

Connector Assignment

5-pin M12-connector

Pin:	(Color)	Assignment:
1	(bn)	+12VDC ... +32VDC
2	(ws)	OUTPUT Qinv
3	(bl)	0V (GND)
4	(sw)	OUTPUT Q
5	Shield	0V (GND)

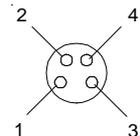
Connecting cable to PLC:

cab-M12/5-g-2-shd (l=2m, shielded)

4-pin M8-connector

Pin:	Assignment:
1	Transmitter anode
2	Transmitter cathode
3	Receiver emitter
4	Receiver collector

} bridge



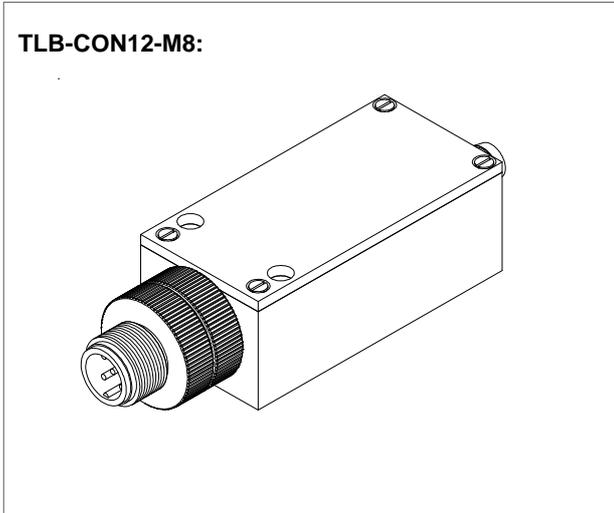
Available connecting cables for connection with fork light barrier

Cable Type	Length (l)
FKB-06-...-M8 or FKB-08-...-M8	
cab-las4	(l=1m)
cab-las4-1,5	(l=1,5m)
cab-las4-2	(l=2m)
cab-las4-3	(l=3m)
cab-las4-5	(l=5m)



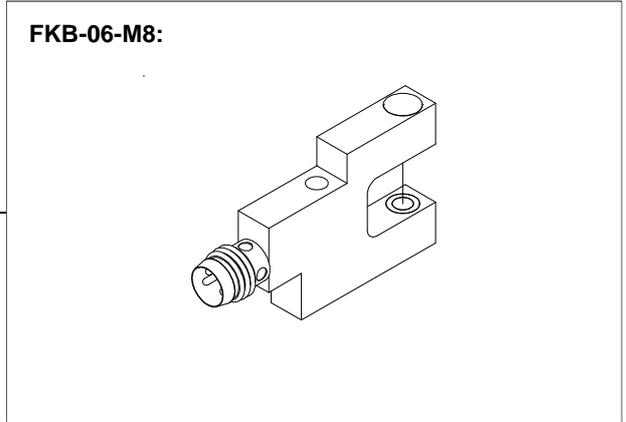
Product Line

TLB-CON12-M8:

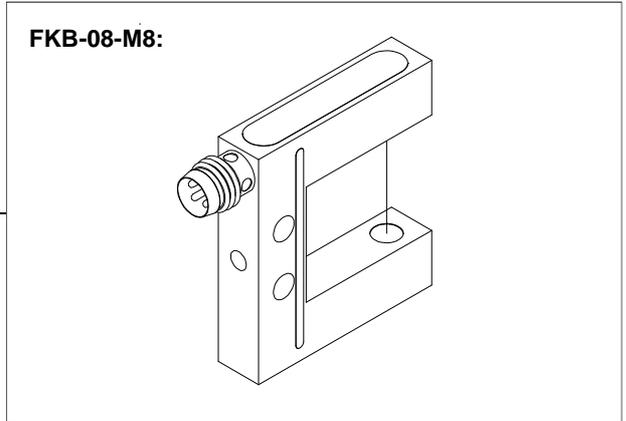


Connecting cable:
cab-las4

FKB-06-M8:



FKB-08-M8:



Interfacing

Connection of TLB-CON12-M8:

Up to 8 amplifiers of type TLB-CON12-M8 can be connected to the die control unit via an interface box of type:

- BOX-M12/4** (4-fold)
- BOX-M12/6** (6-fold, see picture opposite)
- BOX-M12/8** (8-fold)

