

TLB Series

▶ TLB-CON12 Pulsating Light Amplifier

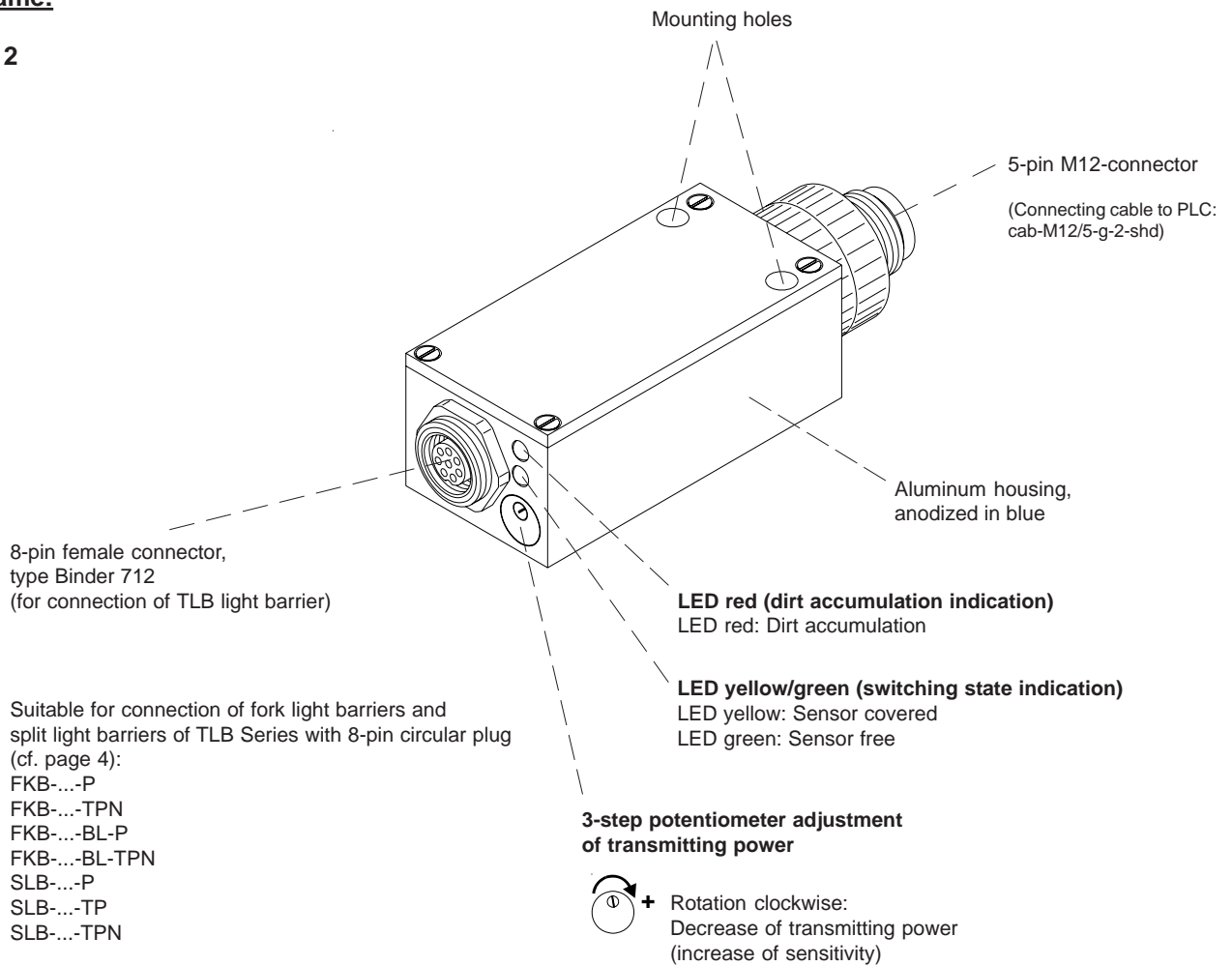
- Insensitive to outside light due to AC operation
- Insensitive to dirt accumulation due to AC operation
- Sensitivity adjustable by means of a potentiometer
- Switching state indication by means of a yellow/green-LED
- Dirt accumulation indication by means of a red LED
- High switching frequency (typ.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



Design


Product name:

TLB-CON12

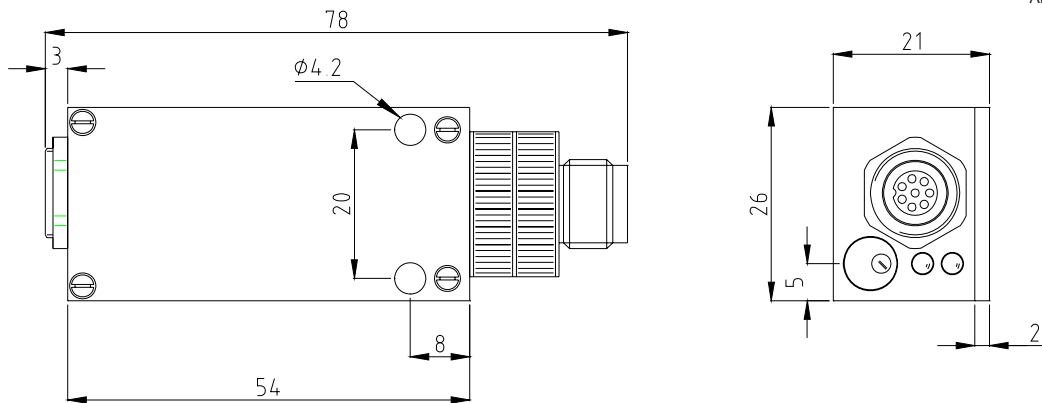




Technical Data

Model	TLB-CON12
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	DIN EN 60947-5-2 
Connector type	Connection to PLC: 5-pole M12-connector Connection to TLB light barrier: 8-pole female connector, type Binder 712
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

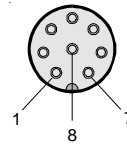
Connector Assignment

5-pin M12-connector

Pin:	(Color:)	Assignment:
1	(brown)	+12VDC ... +32VDC
2	(white)	Output Qinv
3	(blue)	0V (GND)
4	(black)	Output Q
5	Shield	0V (GND)

8-pin female connector, type Binder 712

Pin:	Assignment:
1	n.c.
2	n.c.
3	Transmitter anode
4	Receiver collector
5	Transmitter cathode
6	Receiver emitter
7	n.c.
8	n.c.



Connecting cable to PLC:
cab-M12/5-g-2-shd (length 2m, shielded)

(Connection to TLB light barrier)

Interface

Connection of TLB-CON12:

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

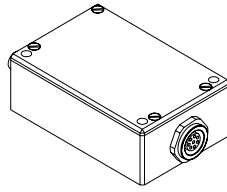
- BOX-M12-4 (4-fold)
- BOX-M12-6 (6-fold, see picture opposite)
- BOX-M12-8 (8-fold)



Product Line

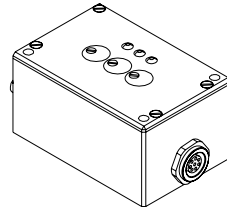
Pulsating light amplifiers:

Connecting cables:
cab-M8/4-g-2 (2m)
cab-las5/PC (5m)



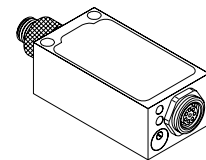
TLB-CON5

Connecting cable:
cab-las8/702-fem (2m)



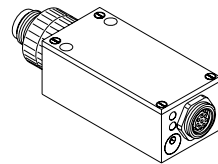
TLB-CON6

Connecting cable:
cab-M8/3-g-2 (2m)



TLB-CON8

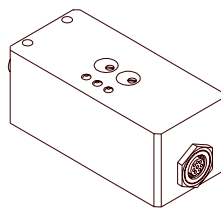
Connecting cable:
cab-M12/5-g-2-shd (2m)



TLB-CON12

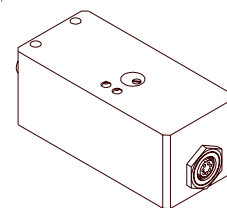
Constant light amplifiers:

Connecting cable:
cab-las8/702-fem (2m)



TLB-CON2

Connecting cable:
cab-las8/702-fem (2m)



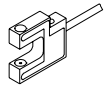
TLB-CON11

Connecting cable for
types ...-TPN and ...-TP
cab-tlb8/702 (2m)

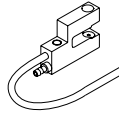
Fork light barriers:

(Connection via 8-pol. connector 712)

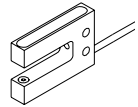
FKB-06-...-P
FKB-06-...-TPN



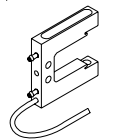
FKB-06-...-BL-P
FKB-06-...-BL-TPN



FKB-08-...-P
FKB-08-...-TPN



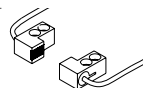
FKB-08-...-BL-P
FKB-08-...-BL-TPN



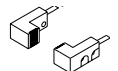
Split light barriers:

(Connection via 8-pin connector 712)

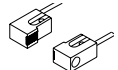
SLB-01-P
SLB-01-TP



SLB-02-P
SLB-02-TP



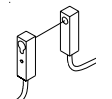
SLB-03-P
SLB-03-TP



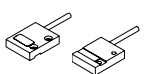
SLB-04-P
SLB-04-TPN



SLB-05-P
SLB-05-TPN



SLB-06-P
SLB-06-TPN



SLB-08-P
SLB-08-TPN

