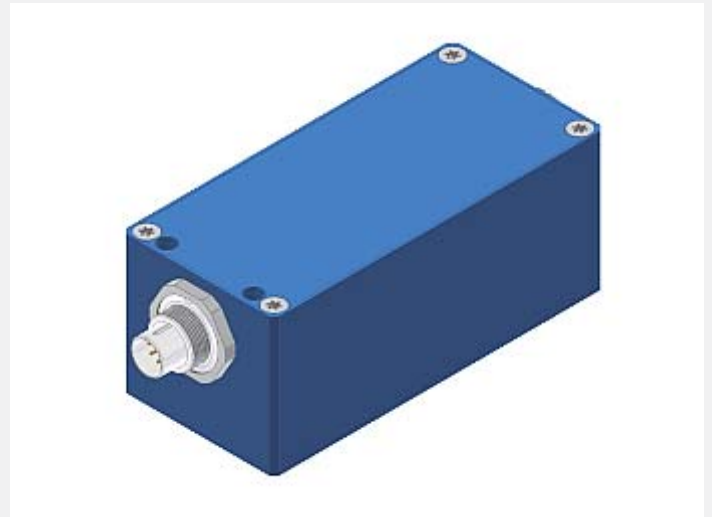


# TLB Series

## ▶ TLB-CON11 Constant light amplifier

- Voltage output (0V ... +10V)
- Current output to select from:
  - TLB-CON11-0/20: 0 ... 20 mA
  - TLB-CON11-4/20: 4 ... 20 mA
  - TLB-CON11-5/25: 5 ... 25 mA
- Gain adjustable by means of potentiometer
- High band width of analog signal: typ. 200 kHz (-3dB)
- Sturdy aluminum housing

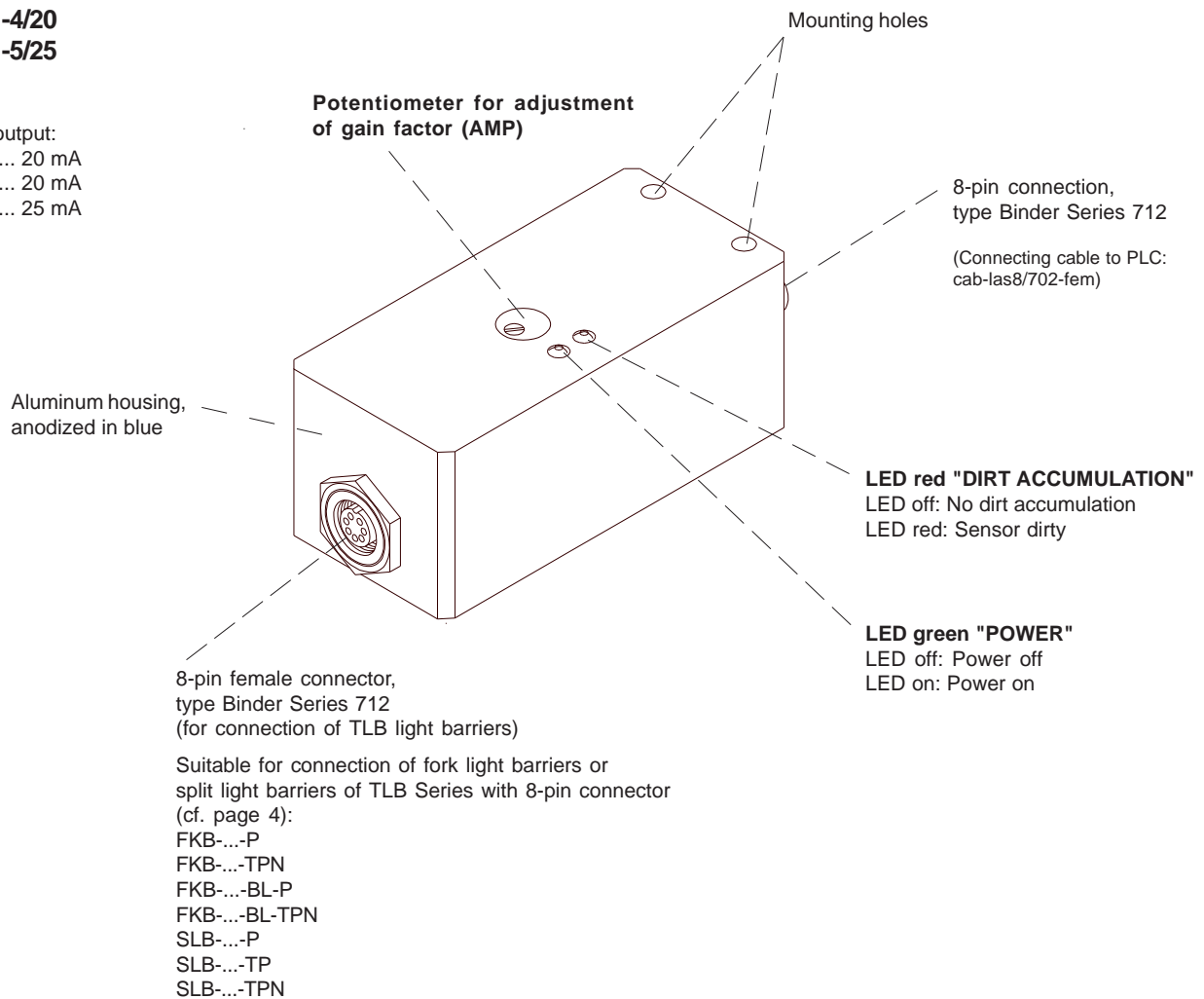


### Design

#### Product name:

TLB-CON11-0/20  
 TLB-CON11-4/20  
 TLB-CON11-5/25

Current output:  
 0/20 = 0 ... 20 mA  
 4/20 = 4 ... 20 mA  
 5/25 = 5 ... 25 mA

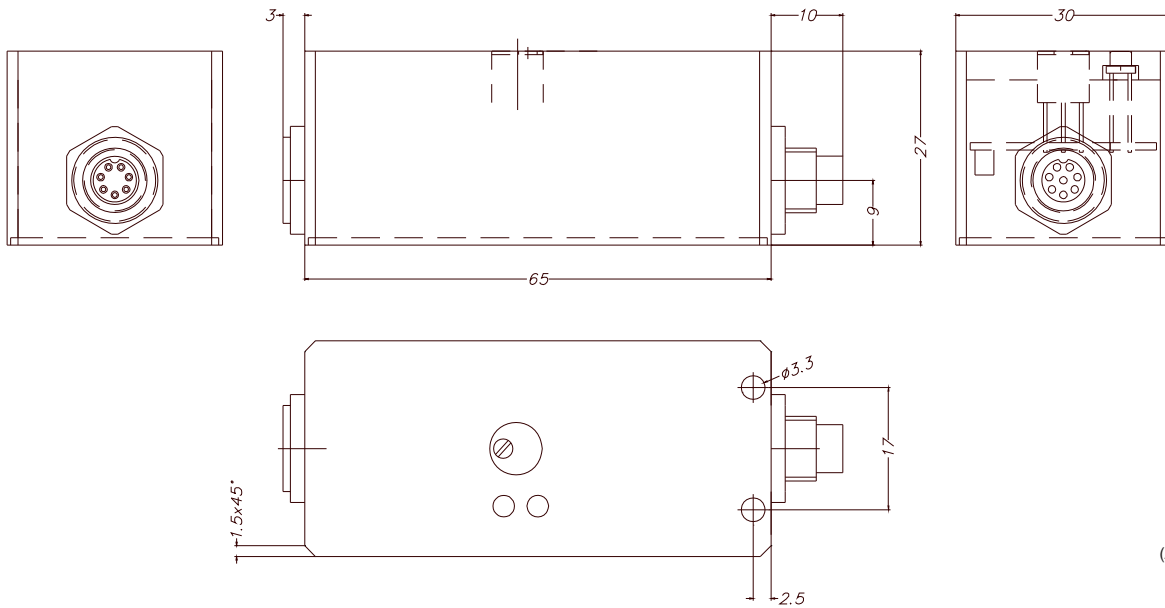




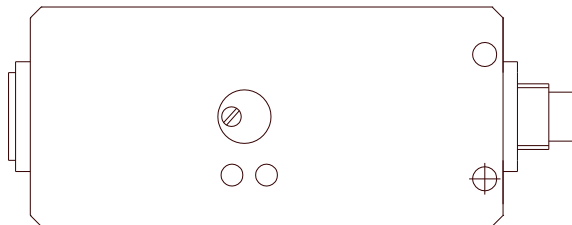
Technical Data

<b>Model</b>	<b>TLB-CON11</b>
Voltage supply	+12VDC ... +32VDC (Ripple 10% max.)
Current consumption	With TLB light barrier: typ. 50 mA
Operating temperature range	-20°C ... +60°C
Storage temperature range	-20°C ... +85°C
Housing	Aluminum, anodized in blue
Housing dimensions	cf. page 3
Mechanical protection	IP64
Output ANALOG	Voltage output: 0V ... +10V (adjustable via potentiometer for gain) Current output: 0mA ... 20mA --> TLB-CON11-0/20 Current output: 4mA ... 20mA --> TLB-CON11-4/20 Current output: 5mA ... 25mA --> TLB-CON11-5/25
Potentiometer for adjustment of gain	3-revolutions potentiometer
Dirt accumulation indication	LED red
Operation indication	LED green
Connector type	Connection to PLC: 8-pin circular connector, type Binder 712 (= cab-las8/702-fem, l=2m) Connection to TLB light barrier: 8-pin female connector, type Binder 712 (=cab-tlb8/712, l=2m)
Band width analog signal	Typ. 200 kHz (-3dB)
EMC test acc. to	IEC - 801...

Dimensions

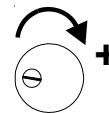


Setting



Potentiometer for adjustment of gain factor (AMP)

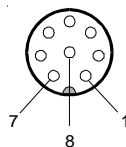
Rotation clockwise  
Increase of analog signal  
(3-revolutions potentiometer)



Connector Assignment

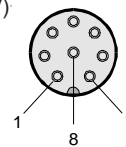
8-pin connector, type Binder 712  
(Connection to PLC):

Pin-No.:	(Color)	Assignment:
1	(wht)	GND (0V)
2	(brn)	+Ub (+12VDC ... +30VDC)
3	(grn)	ANALOG voltage (0V ... +10V)
4	(yel)	n.c.
5	(gry)	n.c.
6	(pnk)	n.c.
7	(blu)	n.c.
8	(red)	ANALOG current (0...20mA, 4...20mA, 5...25mA)



8-pin female connector, type Binder 712  
(Connection to TLB light barrier):

Pin-No.:	Assignment:
1	Transmitter cathode 3
2	GND (0V)
3	Transmitter anode (+12V)
4	Receiver collector
5	Transmitter cathode 1
6	Receiver emitter
7	Transmitter cathode 2
8	GND (0V)



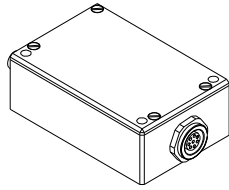
Connecting cable: cab-las8/702-fem (l=2m)



Product Line

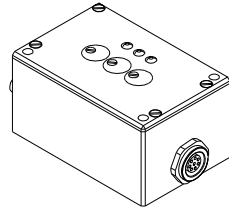
Pulsating light amplifiers:

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



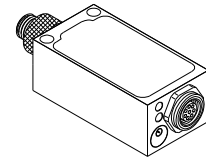
TLB-CON5

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



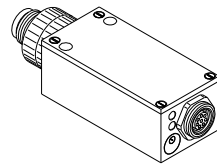
TLB-CON6

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



TLB-CON8

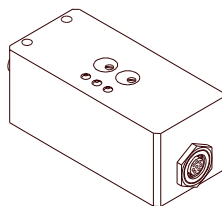
Connecting cable:  
cab-M12/5-g-2-shd (2m)



TLB-CON12

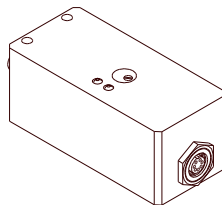
Constant light amplifiers:

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



TLB-CON2

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



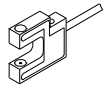
TLB-CON11

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

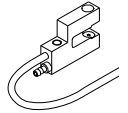
Fork light barriers:

(Connection via 8-pol. connector 712)

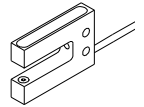
FKB-06-...-P  
FKB-06-...-TPN



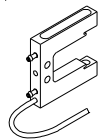
FKB-06-...-BL-P  
FKB-06-...-BL-TPN



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



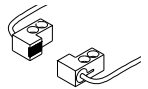
FKB-08-...-BL-P  
FKB-08-...-BL-TPN



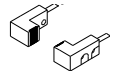
Split light barriers:

(Connection via 8-pin connector 712)

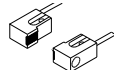
SLB-01-P  
SLB-01-TP



SLB-02-P  
SLB-02-TP



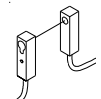
SLB-03-P  
SLB-03-TP



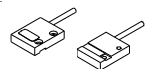
SLB-04-P  
SLB-04-TPN



SLB-05-P  
SLB-05-TPN



SLB-06-P  
SLB-06-TPN



SLB-08-P  
SLB-08-TPN

