

TLB Series

► TLB-CON2 Constant light amplifier

- For connection of fork light barriers FKB-... or split light barriers SLB-... with 8-pole connector (type P, TP, or TPN)
- Bright- and dark-switching
- Outputs short-circuit protected
- High switching frequency (typ. 25 kHz)
- Switching state indication by means of a yellow/green-LED
- Push-pull output stage (appropriate for npn and pnp)
- Sturdy aluminum housing

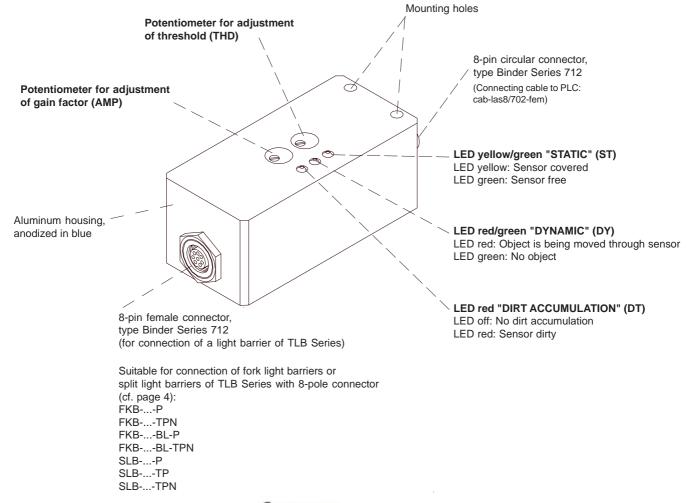




Design

Product name:

TLB-CON2



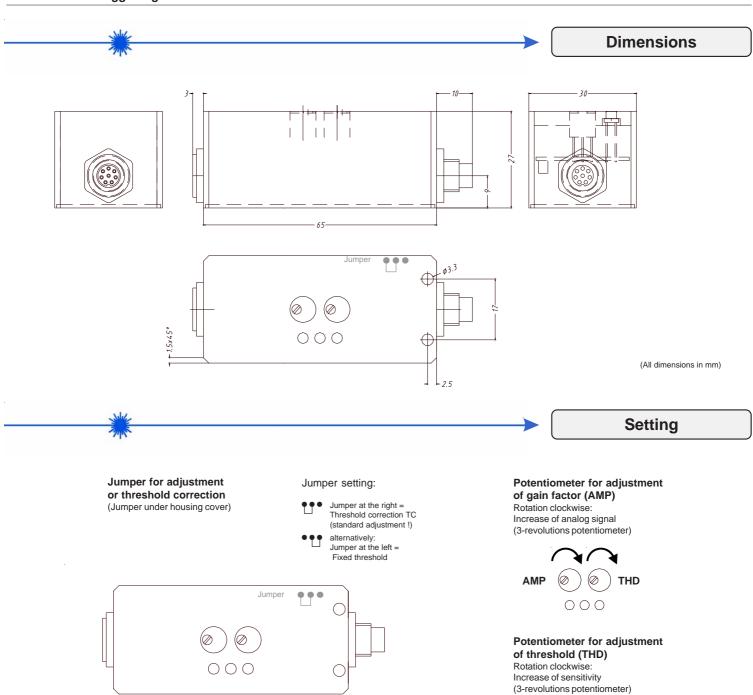




Technical Data

Model	TLB-CON2
Voltage supply	+12VDC +32VDC Ripple 10% max.
Current consumption	with TLB light barrier: typ. 80 mA
Operating temperature range	-20°C +60°C
Storage temperature range	-20°C +85°C
Housing	Material: Aluminum, anodized in blue Dimensions: approx. 65 mm x 27 mm x 30 mm
Mechanical protection	IP 64
Threshold correction	Adjustable via integrated jumper
Output ANALOG	0V +10V
Output DIGITAL STATIC	2x static: 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)
Output DIGITAL DYNAMIC	1x dynamic (pulse length 15 ms): Q: npn dark-switching (npn normally open) / pnp bright-switching (pnp normally closed) (Alernatively: Qinv: npn bright-switching (npn normally closed) / pnp dark-switching (pnp normally open)
Potentiometer for gain	3-revolutions potentiometer integrated in the housing
Potentiometer for trigger threshold	3-revolutions potentiometer integrated in the housing
Dirt accumulation indication	LED red
Switching state indication STATIC	via yellow/green LED
Switching state indication DYNAMIC	via red/green LED
Connector type	Connection to PLC: 8-pin circular connector, type Binder 712 Connection to TLB light barrier: Via cable integrated at the light barrier
Switching state indication	Typ. 25 kHz
Max. switching current	200 mA, short circuit protection
Band width analog signal	50 kHz (-3dB)
EMC test acc. to	IEC - 801 (€





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



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

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

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

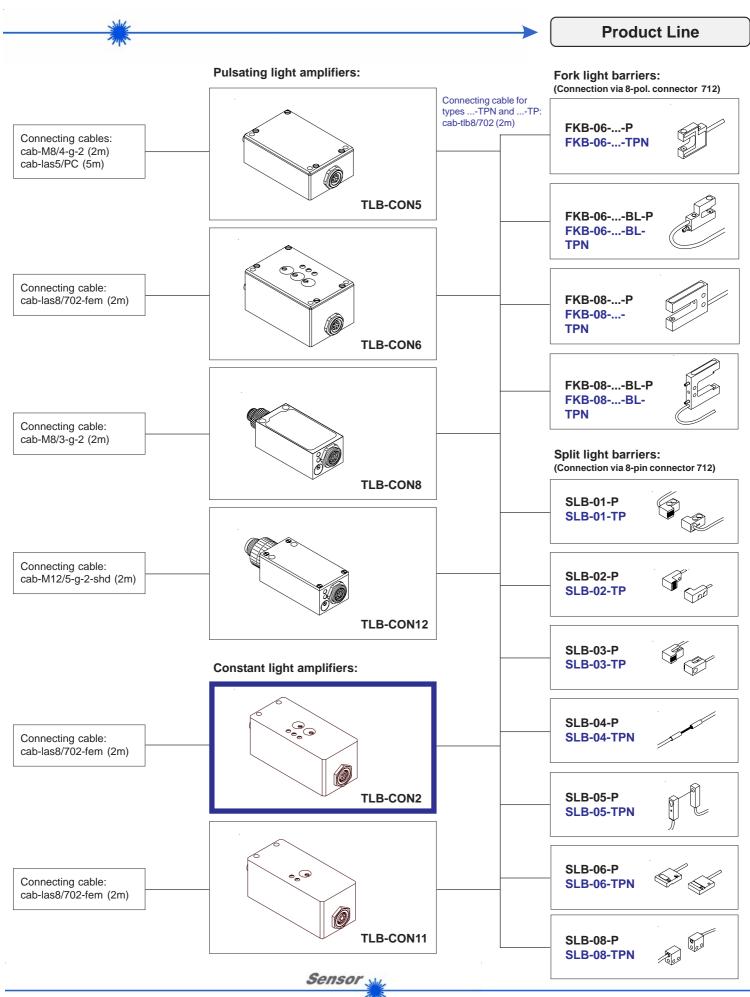
6 Receiver emitter 7 Transmitter cathode 2

GND (0V)





Connector Assignment



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