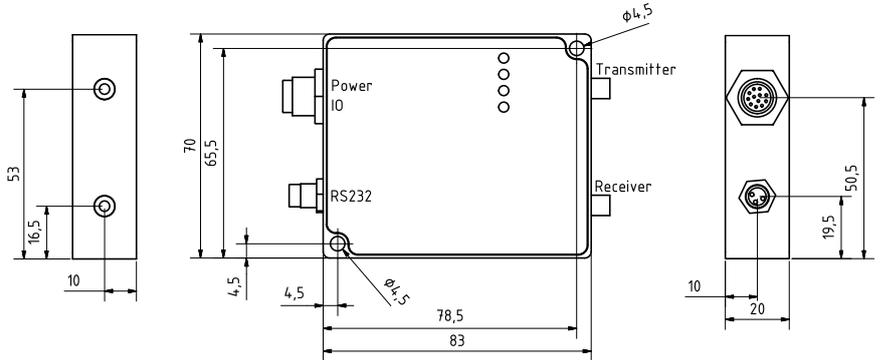


Datasheet PR0128

Article-No.: 50341



Tolerance of Measure: Unless otherwise noted in drawing, tolerances are specified with ± 0.1 and dimensions are specified in mm.



Safety and Warning Instructions

The system is not designed and constructed for use as a safety-critical component in systems and machines in general, nor for particular use in medical applications. Use is not permitted in these areas. Assembly, installation and maintenance are to be performed by trained personnel only.



Safety and Warning Instructions Light Source

Do not look into the light source for a long-time during operation. May be harmful to the eyes. DIN EN 62471 risk group 2. Never intentionally point the light beam from the light source or the light beam of the connected fiber optics into your own eyes or into the eyes of other people. If you look directly into the light beam of the light source or the light beam of the connected fiber optics, the high luminosity of the light source can cause glare to the eyes. If a light beam hits the eyes, close the eyes immediately and move the head out of the light beam. No optically highly focused instruments may be used to view the light beam.

Pin Assignment Serial Interface

Pin assignment of the 3-pole M8 connector.

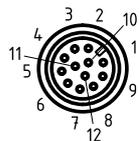
- 1 TxD
- 3 GND
- 4 RxD



Pin Assignment Power Supply

Pin assignment of the 12-pole M12 connector.

- 1 Power supply 12 V to 27 V DC
- 2 Power supply 0 V
- 3 Input control signal "Teach"
- 4 In 1 (product selection)
- 5 In 2 (product selection)
- 6 In 3 (product selection)
- 7 Out 1 (product number, binary coded)
- 8 Out 2 (product number, binary coded)
- 9 Out 3 (product number, binary coded)
- 10 Out 4 (product number, binary coded)
- 11 Out 5 (product number, binary coded)
- 12 Out 6 (product number, binary coded)



LED Indicator

LED	State	Meaning
READY	Off	No power supply.
	On, green	Power supply present, system ready.
SERIAL COMM. ACTIVE	Off	System waiting for external input through the communication interface.
	Flashing, yellow	System sending and/or receiving data over the communication interface.
TEST OK	On, green	Measuring result lies within limits.
TEST NOT OK	On, red	Measuring result lies outside the limits.

Technical Data

Power supply	12 V to 27 V DC, max. 90 mA at 12 V
Switching frequency	500 Hz
Spectral range	380 nm to 780 nm
Output	XYZ, CIEL*a*b*, ΔE
Resolution	8 gain steps a 12 Bit
Products	up to 63 binary coded via 6 outputs
Color resolution	< 0.1 ΔE
Repeat accuracy	< 0.5 ΔE
Light source	LED white
Inputs	Teach, In 1, In 2, In 3
Signal voltage On	12 V to 27 V DC, not potential free
Signal voltage Off	< 2 V, not potential free
Outputs	Out 1 to Out 6
Type	high side switches (PNP), not potential-free
Signal voltage On	> power supply - 3 V
Current	max. 70 mA per output
Interface	RS232
Coupling measuring object	fiber optic with F-SMA connection
Material case	Aluminum coated
IP Code	IP54
Operating temperature	10 °C to 55 °C
Operating humidity	35 % to 85 % relative humidity
Storage temperature	-10 °C to 60 °C
Weight	approx. 200 g