design **11 x 43.5 x 20mm**

operating range adjustable **up to 30m**

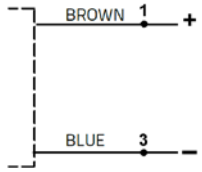
- ✓ **plastic housing**
- ✓ **high switching frequency**
- ✓ **short-circuit and reverse polarity protection**
- ✓ **LED-display**
- ✓ **4-pin M8-plug connection**

large operating range up to 30m
laser protection class 1

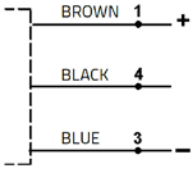
TECHNICAL DATA	PY98C994
operating voltage	10 … 30V DC
residual ripple	< 1.5V
output current (max. load)	100mA
current consumption (w/o load)	max. 35mA
response time	250µs
operating range	0 … 30m
light spot diameter	Ø5mm at a distance of 3m
transmitting element	laser diode, red light
output	pnp
output function	normally open (NO) / normally close (NC) switchable
setting	trimmer-poti
switching frequency	2kHz
operating mode display	LED green (transmitter)
functional reserve	LED green (receiver)
switching state display	LED yellow (receiver)
degree of protection (EN 60529)	IP 67
temperature (operating)	-25 ... +55°C
temperature (storage)	-25 ... +70°C
insulation strength	500V AC, 1min between electronics and housing
insulation resistance	>20MΩ, 500V DC between electronics and housing
vibration resistance	0.5mm amplitude, 10…55Hz frequency in each axis (EN60088-2-6)
shock resistance	11ms (30G), 6 shocks for each axis (EN60068-2-27)
connection	M8-connector, 4-pin
material (housing)	PBT (LED-cover PC)
material (front screen)	PMMA
connection accessories	i.e. **VK200375**
mounting accessories	**AY000118**

pin configuration:

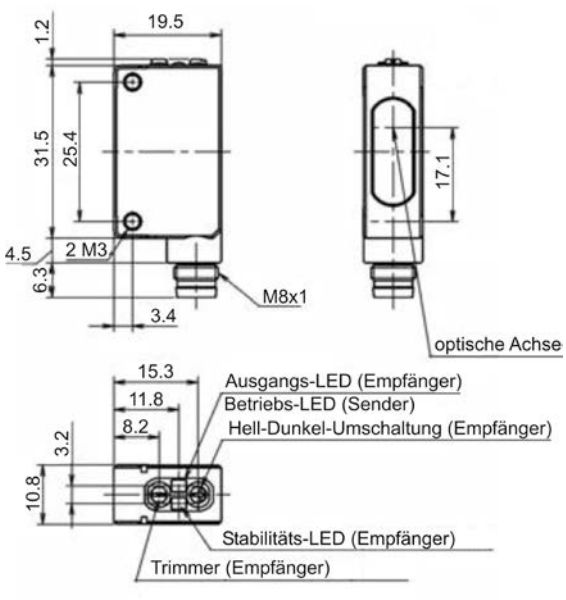
transmitter



receiver



dimensional drawing:



control elements:

LED-displays: The output-LED (yellow) on the receiver indicates the status of the switching output.

The stability-LED (green) on the receiver indicates that the received signal has a reserve of more than 20% of the response sensitivity.

The operation-LED (green) on the transmitter indicates that the operating voltage is active.

trimmer: With the trimmer the receiving sensitivity is set. The range increases when turning the potentiometer clockwise.

light-on / dark-on mode switchover: With this trimmer the receiver can be switched from dark-on (NO) to light-on mode (NC). Turn this trimmer always to the respective stop.

attention: The trimmers have an operating angle of 260°. Turn the trimmers carefully, never turn them beyond the stops. The maximum torque is 0.05Nm.

alignment: Arrange receiver and transmitter opposite each other. Find the on and off setpoints of the receiver, both in horizontal and vertical direction. Fix the receiver in the middle of the points found. The through-beam sensor works best when the stability LED lights up.

article-no: **PY98C994**

Warning: Never use these devices in applications where the safety of a person depends on their functionability.