

► laser sensors

product: rectangular devices: plastic
analog/digital

design: 70 30x90x70

- robust plastic housing
- laser class 2
- 2 switching outputs pnp/npn
- analog output 1-10V
- outputs adjustable via teach button
- connection with 5-pin M12-connector



technical data

optical data, error limits, timing

measuring range ¹⁾	150 ... 2300mm
light source	laser, pulsed, 635nm, laser class 2
light spot	divergent, 3x8mm at 2300mm
resolution ²⁾	1 ... 5mm
absolute measurement accuracy ¹⁾	± 3%
repeatability ³⁾	± 2%
b/w detection thresh (6%-90% Rem.)	≤ 1%
temperature drift	≤ 0.1% / °C
measurement time	≤ 7ms
response time	≤ 20ms
delay before start-up	≤ 300ms

1) luminosity coefficient 6% ... 90%, at 20 °C, measurement object ≥ 50x50mm²

2) minimum and maximum value depend on measurement distance and configuration of the analog output

3) same object, identical environmental conditions, measurement object ≥ 50x50mm²

electrical data

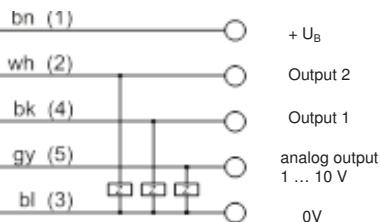
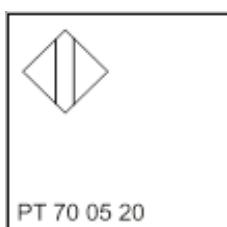
operating voltage U _B	18 ... 30V DC, (incl. residual ripple)
residual ripple	≤ 15% of U _B
open-circuit current	≤ 150mA
switching output/function	2xpush-pull switching outputs PNP, no / NPN, nc
protective circuit	reverse polarity and short-circuit protected
analog output	1 ... 10V
signal voltage high	≥ (U _B - 2V)
signal voltage low	≤ 2V
analog output	R _L ≥ 2kΩ

mechanical data, environmental data

housing	plastic
optics cover	plastic
weight	140g
connection type	M12 connector, 5-pin
ambient temp. operation	-20 ... +40 °C
ambient temp. storage	-30 ... +70 °C
VDE safety class ¹⁾	II, all-insulated
protection class	IP 67 (acc. to EN 60529)
standards applied	IEC 60947-5-2

1) Rating voltage 250V AC

electrical connection

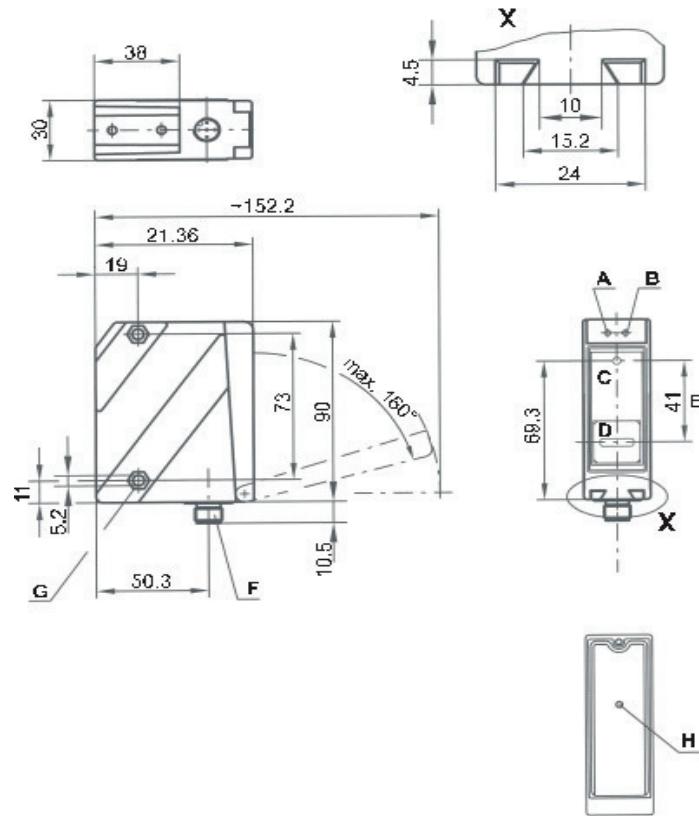


CAUTION, Laser Radiation
 Do not stare into Beam!
 laser class 2
 max. output power : 1.2mW
 pulse duration: 3sec
 wave length: 635nm

bn=brown, wh=white, bk=black, gy=grey, bl= blue
 description of connecting terminal in brackets

dimensional drawing

- A** green indicator diode
- B** yellow indicator diode
- C** transmitter
- D** receiver
- E** optical axis
- F** device plug M12 x 1
- G** countersinking for SK nut
M5 / 4.2 deep
- H** teach button



article number:

PT 70 05 20

We recommend e. g. the cable socket: VK 20 56 21