10

15.2 24

62.2

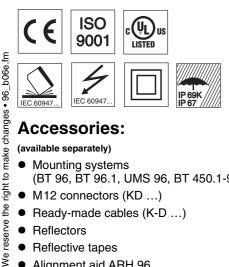
PRK 96

38



10 - 30 V DC

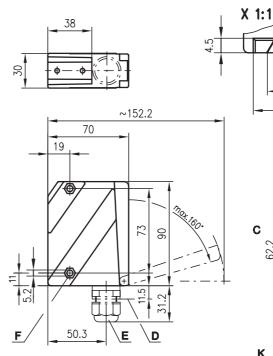
- Retro-reflective photoelectric sensor for safe detection of transparent media • (e.g. clear glass, PE, foil)
- Reliable detection of the smallest gaps between transparent objects
- User controlled sensitivity adjustment with high resolution
- The autocollimation principle used ensures that the device functions reliably over the entire range (0 ... max.)
- High switching frequency for detection of fast events
- Connection via M12 connector or terminal compartment



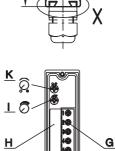
Accessories:

- (available separately)
- Mounting systems
- (BT 96, BT 96.1, UMS 96, BT 450.1-96)
- M12 connectors (KD ...)
- Ready-made cables (K-D ...)
- Reflectors
- Reflective tapes
- Alignment aid ARH 96

Dimensioned drawing

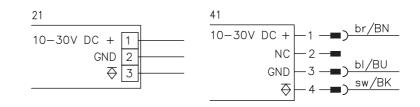


Retro-reflective photoelectric sensors with polarisation filter



- Α Indicator diode green
- в Indicator diode yellow
- С Optical axis
- D Device plug M12x1
- Е Screwed cable gland M16x1.5 for Ø 5 ... 10mm
- F Countersinking for SK nut M5, 4.2 deep
- G Connection terminals
- н Cable entry
- Sensitivity adjustment Т
- κ Light/dark switching

Electrical connection



	Tables
0 1.85m 0 1.5m LED (modulated light) 660nm (visible red light/polarised)	
0.5ms ≤ 200ms	
10 30VDC (incl. residual ripple) \leq 15% of U _B \leq 40mA PNP transistor light/dark switching (reversible) \geq (U _B -2V)/ \leq 2V max. 100mA adjustable with 10-turn potentiometer	
ready clear glass - adjustment range 1 transition from quickly flashing to slowly flashing coloured glass - adjustment range 2 transition from cont. illuminated to quickly flashing other - adjustment range 3 continuously illuminated	Diagrams
Metal housing diecast zinc glass 380g terminals or M12 connector	Diagrams
-20°C +55°C/-40°C +55°C 1, 2, 3, 4 II, all-insulated IP 67, IP 69K ⁵⁾ 1 (acc. to EN 60825-1) IEC 60947-5-2	
	0 1.5m LED (modulated light) 660nm (visible red light/polarised) 1000Hz 0.5ms ≤ 200ms 10 30VDC (incl. residual ripple) ≤ 15% of U _B ≤ 40mA PNP transistor light/dark switching (reversible) ≥ $(U_B - 2V)/\le 2V$ max. 100mA adjustable with 10-turn potentiometer ready clear glass - adjustment range 1 transition from quickly flashing to slowly flashing coloured glass - adjustment range 2 transition from quickly flashing to slowly flashing coloured glass - adjustment range 3 continuously illuminated Metal housing diecast zinc glass 380g terminals or M12 connector -20°C +55°C/-40°C +55°C 1, 2, 3, 4 II, all-insulated IP 67, IP 69K ⁵) 1 (acc. to EN 60825-1)

3) 1=transient protection, 2=polarity reversal protection, 3=short circuit protection for all outputs, 4=interference blanking

 4) Rating voltage 250VAC
5) IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives, acids and bases are not part of the test

Order guide

With terminals With M12 connector Designation PRK 96M/P-1830-21 PRK 96M/P-1830-41

Part No. 500 28975 500 80469

Remarks

• Integrated slit diaphragm: 3.7x20mm

Objects	Adjustment (indicator LED yellow)
Clear glass, PE, foil	Range 1 Operating pt. 1
Coloured glass	Range 2 Operating pt. 2
Other	Range 3