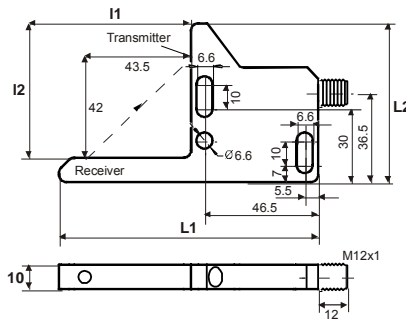
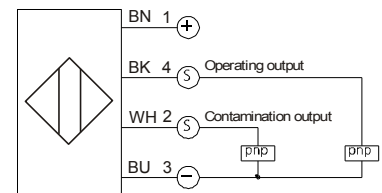


Angled Light Barriers, PNP



- Accurate 'laser-like' detection in x-, y- and z-direction
- Easy installation due to visible red light beam
- Intelligent contamination compensation and indication
- Robust metal casing and all-purpose mounting
- Fast reaction rate
- Listed in the automotive industry

Model	Reference	L1 x L2 [mm]	I1 x I2 [mm]	Output
Visible light $\lambda=620\text{nm}$				
O30-W30-Q2SP-D-S2	2010.01	83 x 35	30 x 35	pnp NO
O30-W30-Q2OP-D-S2	2011.01	83 x 45	30 x 35	pnp NC
O60-W55-Q2SP-D-S2	2002.01	108 x 65	55 x 55	pnp NO
O60-W55-Q2OP-D-S2	2021.01	108 x 65	55 x 55	pnp NC
O70-W65-Q2SP-D-S2	2030.01	117 x 65	65 x 55	pnp NO
O70-W65-Q2OP-D-S2	2031.01	117 x 65	65 x 55	pnp NC
Infrared light $\lambda=850\text{nm}$				
OI60-W55-Q2SP-D-S2	2005.01	108 x 65	55 x 55	pnp NC



Function, I/O	
Supply voltage	10 ... 30 V DC
Output	< 200 mA, pnp, NO-NC
Internal power consumption	< 20 mA (optional < 10 mA ca.)
Voltage drop	< 2.0 V
Operating frequency	1 kHz
Connector	M12 (micro), 4-pin
Immunity	
Insulation voltage endurance	500 V
Ambient light immunity	> 20.000 Lux
Ambient temperature	-10 ... +60° C
Protection class	IP 67
Casing	
Casing material	Steel
Indicators	
Visible red light beam	Operating indication
LED yellow	Output
LED red	Contamination

ICBeam Technology

Our angled light barriers are optimized for rough industrial environments. A light transmittance 300% higher than standard products provide highest functional reserves. Contamination is indicated while the sensor still safely operates.

Fast reaction rate of 1 kHz make the product the ideal solution for parts handling and flow monitoring.

The low energy consumption of 20 mA or even 10 mA (special high-efficiency version) allows integration in complex (robotic) tooling along with a multitude of other energy using devices.



ICBeam Technology integrated