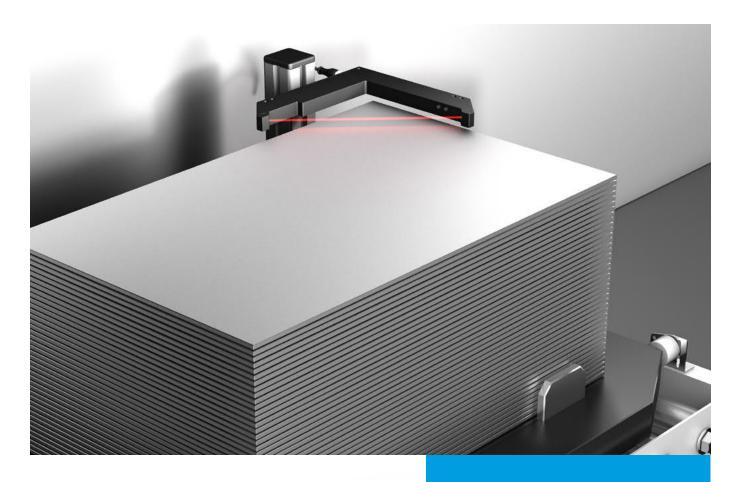
# **Angled light barriers**





**#**, di-soric

Angled light barriers from di-soric work according to the through-beam principle. They are used, preferably in tight spaces, for fast, surface-independent detection of objects. Since transmitter, receiver and the electronics are located in one housing, they can be mounted quickly. Costly brackets and time-consuming adjustments can be avoided.

OGL	81
OGLP Dirt-resistant	82
OGLL Laser	83

### **OGL**

The OGL angled light barrier offers unsurpassed performance and can be operated with a potentiometer. The OGL offers high resolution and reproducibility with outstanding speed. It is operated intuitively using potentiometers or IO-Link. Four preset operation modes provide the option for ideal adaptation to the application. At the same time, IO-Link offers important advantages in configuration and diagnosis.

Technical data (typ.)	+20 °C, 24 VDC
Service voltage	10 to 30 VDC (Supply Class 2)
Switching output	Push-pull (pnp/npn can be adjusted by IO-Link)
	100 mA, NO/NC (can be switched by potentiometer)
Sensitivity adjustment	Adjustable (potentiometer)
Ambient temperature	-25 to +60 °C
Protection type	IP 67
Operation modes	Standard (general applications)
	High Resolution (for detecting very small objects)
	Power (increased function reserve)
	Speed (reliable detection of fast-moving parts)
Plug connector	M8, 3-pin
Connection cable	TK (optionally available)













Standard - General applications



Reproducibility: 0.02 mm



Power - Increased function reserve

Increased transmitting power,



High Resolution - For detecting very small objects

■ Resolution improved by 30%



Speed - Reliable detection of fast-moving parts ■ 30% higher switching frequency

Infared light, 880 nm OGL  $\triangleright - \emptyset$ OGL 050 G3-T3 1) Ø0.3 5,000 50 75 x 75 x 10 < 30 0.02 (min. Ø 0.2) (max. 10,000) OGL 051 G3-T3 1) OGL 080 G3-T3 1) Ø0.3 5.000 80 105 x 105 x 10 < 30 0.02 (min. Ø 0.2) (max. 10,000) OGL 081 G3-T3 1)

Ø0.5

(min. Ø 0.4)

< 30

5.000

(max. 10,000)

0.02



120

## Air nozzle devices FBE for OGLP xx G3-T3

150 x 150 x 12

see "OG-Z Accessories for fork light barriers," page 79

OGL 120 G3-T3 1)

OGL 121 G3-T3 1)

### **OGLP DIRT-RESISTANT**

The high-performance angled light barriers from di-soric have an increased functional reserve. In the devices with contamination indicator, the cleaning cycles are reduced to a minimum.

Technical data (typ.) +20°C, 24 VDC	OGLP xx G3-T3	OGL xx/xx P6L-IBS
Service voltage	10 to 30 VDC (Supply Class 2)	10 to 35 V DC
Switching output	Push-pull (pnp/npn can be adjusted by IO-Link)	pnp, 200 mA, NO
	100 mA, NO/NC (can be switched by potentiometer)	
Sensitivity adjustment	Adjustable (potentiometer)	
Ambient temperature	-25 to +60 °C	-10 to +60 °C
Protection type	IP 67	IP 67
Operation modes	Standard (general applications)	
	High Resolution (for detecting very small objects)	
	Power (increased function reserve)	
	Speed (reliable detection of fast-moving parts)	
Plug connector	M8, 3-pin	M12, 4-pin
Connection cable	TK (optionally available)	VK/4 (optionally available)











### Operation modes OGLP xx G3-T3



Standard - General applications

- Reproducibility: 0.02 mm



Power - Increased function reserve

Increased transmitting power,



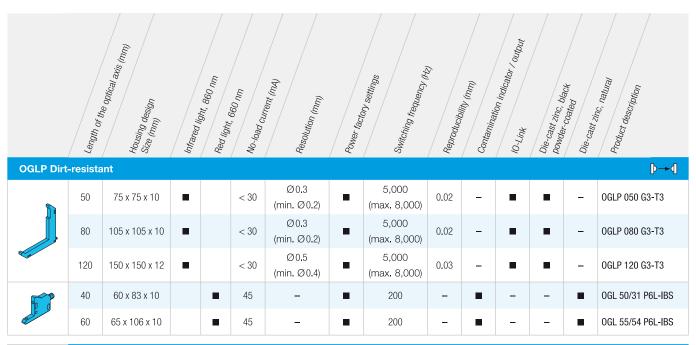
High Resolution - For detecting very small objects

Resolution improved by 30%



Speed - Reliable detection of fast-moving parts

■ 30% higher switching frequency





#### Air nozzle devices FBE for OGLP xx G3-T3

see "OG-Z Accessories for fork light barriers," page 79

### **OGLL LASER**

The OGLL laser angled light barrier is particularly suited for detecting small parts down to 0.05 mm. Using collimated laser red light achieves a high degree of precision of the switching point between transmitter and receiver across the entire fork width. The devices work with a clocked red light laser in the eye-safe laser class 1. The easily visible, small laser point makes quick adjustment to the object possible even with a large amount of ambient light.

Technical data (typ.)	+20°C, 24 V DC
Service voltage	10 to 30 VDC (Supply Class 2)
Switching output	Push-pull (pnp/npn can be adjusted by IO-Link)
	100 mA, NO/NC (can be switched by potentiometer)
Sensitivity adjustment	Adjustable (potentiometer)
Ambient temperature	-25 to +60 °C
Protection type	IP 67
Operation modes	Standard (general applications)
	High Resolution (for detecting very small objects)
	Power (increased function reserve)
	Speed (reliable detection of fast-moving parts)
Plug connector	M8, 3-pin
Connection cable	TK (optionally available)













Standard - General applications

- Reproducibility: 0.01 mm



Power - Increased function reserve

Increased transmitting power,



High Resolution - For detecting very small objects

■ Resolution improved by 30%



Speed - Reliable detection of fast-moving parts

■ 100% higher switching frequency





### Air nozzles (FBE)

see "OG-Z Accessories for fork light barriers," page 79