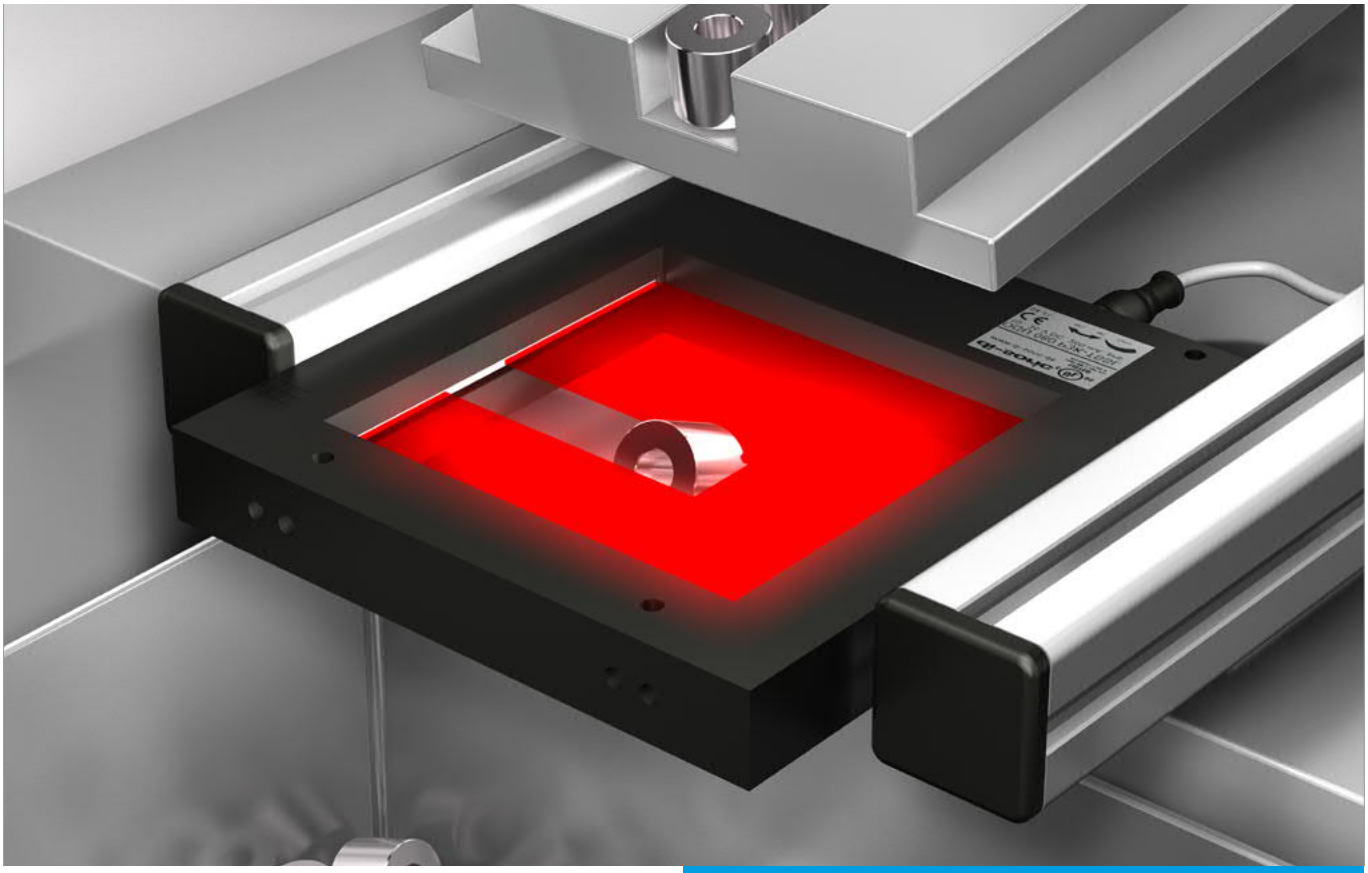
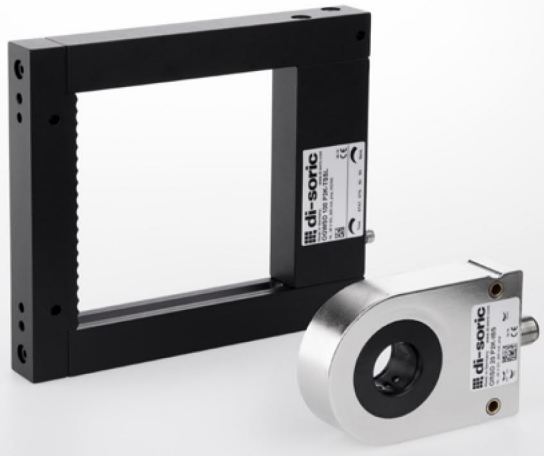
Frame and ring light barriers





Our frame and ring light barriers detect mostly small objects in a small to medium-sized detection field. They are used wherever metallic or non-metallic objects are to be detected not only periodically, but across a range, quickly and independent of surface.

OGSWD FRAME DESIGN

The OGWSD frame light sensors detect fast-moving and static objects in an established rectangular range of up to 300 x 397 mm. The devices have a robust metallic housing with collision protection and can be easily operated with a potentiometer.

Technical data (typ.)	+20 °C, 24 V DC
Emitted light	Infrared light, 880 nm
Activation time	0.1 ms
Release time	0.1 to 150 ms
Pulse stretching	0.1 to 150 ms
Ambient temperature	0 to 60 °C
Protection type	IP 67
Insulation voltage endurance	500 V
Housing material	Aluminum, anodized

	Active zone / ring diameter (mm)	Housing design Size (mm)	Functional principle S = static / D = dynamic	Switching output		No-load current (mA)	Resolution, dynamic operation (mm)	Resolution, static operation (mm)	Ambient light immunity (kLx)	Service voltage (VDC)	Plug connector	Connection cable (optionally available)	Product description
OGSWD Frame design													
	25 x 23	60 x 60 x 15	S/D	pnp	200 mA NO/NC	25	Ø0.7	Ø1.0	30	10 to 35	M8	TK …	OGWSD 25 P3K-TSSL
				npn									OGWSD 25 N3K-TSSL
	40 x 49	80 x 125 x 20		pnp		30	Ø0.7	Ø1.0	20	18 to 35			OGWSD 4055 P3K-TSSL
				npn									OGWSD 4055 N3K-TSSL
	70 x 62	110 x 123 x 20		pnp		30	Ø1.5	Ø2.0	20	18 to 35			OGWSD 70 P3K-TSSL
				npn									OGWSD 70 N3K-TSSL
	100 x 92	140 x 153 x 20		pnp		35	Ø2.5	Ø3.0	20	18 to 35			OGWSD 100 P3K-TSSL
				npn									OGWSD 100 N3K-TSSL
	150 x 142	190 x 203 x 20		pnp		45	Ø3.0	Ø5.0	20	18 to 35			OGWSD 150 P3K-TSSL
				npn									OGWSD 150 N3K-TSSL
	250 x 242	290 x 303 x 20		pnp		45	Ø5.0	Ø8.0	10	22 to 26			OGWSD 250 P3K-TSSL
				npn									OGWSD 250 N3K-TSSL
	300 x 397.5	340 x 458.5 x 20		pnp		50	Ø5.0	Ø 10.0	8	22 to 26			OGWSD 300 P3K-TSSL
				npn									OGWSD 300 N3K-TSSL

ORSD RING DESIGN

The ORSD ring light barriers are used in feed control and for counting small parts. They reliably detect fast-moving and static objects in a round detection area and in tubes with a diameter of 20 mm or smaller. The devices have a metallic housing and can be easily operated with a potentiometer.

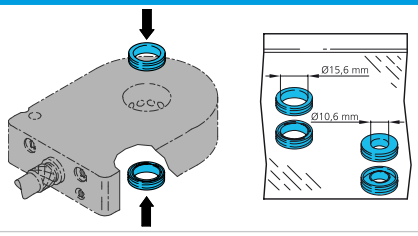
Technical data (typ.)	+20 °C, 24 V DC
Emitted light	Infrared light, 880 nm
Activation time	0.1 ms
Release time	
Pulse stretching	1 to 150 ms
Ambient temperature	0 to 60 °C
Protection type	IP 67
Insulation voltage endurance	500 V
Housing material	Plastic PA

	Active zone / ring diameter (mm)	Housing design Size (mm)	Functional principle S = static / D = dynamic	Switching output	No-load current (mA)	Resolution, dynamic operation (mm)	Resolution, static operation (mm)	Ambient light immunity (kLx)	Service voltage (VDC)	Plug connector	Connection cable (optionally available)	Product description
ORSD Ring design												
	Ø 20.6	60 x 85 x 20	S/D	pnp	200 mA NO	30	Ø 1.5	Ø 1.5	5	10 to 35	M12	VK ...	ORSD 20 P2K-IBS

ORR-Z ACCESSORIES FOR FRAME & RINGLIGHT BARRIERS

The adapter rings enable adaptation of the ringlight barrier to supply tubes with a diameter of 10 or 15 mm.

Adapter set for ORSD 20 P2K-IBS ring light barrier



Adapter ring Ø 10 mm (2x) Adapter ring Ø 15 mm (2x)	ORSD-AR-10/15