

3-Channel-fork light barrier

OGS 026-3-PALK

- Three individual channels
- Large light reserve of 2,500%
- Indication LED for each channel
- High repetitive accuracy of 0.5 mm
- Insensitive to smoke, dust and vapor
- Robust design with two microprocessors
- Short response time
- Short-circuit safe semiconductor output PNP
- High EMC immunity



Complete system with three beams, PNP, with 0.3 m cable (high capacitive load - HCL)

Optical

Light reserve	min. 2,500%
Ambient light	max. 100,000 Lux
Repetitive accuracy	0.5 mm
Wave length IR	950 nm
Number of beams / elements	3

Cables

Type	AWG24
Diameter	Approx. 5.5 mm
Length	0.3 m
Color	Black

Electrical

Supply voltage U_{SP}	12 ... 60 VDC
Current consumption	< 100 mA
Response time	< 1 ms
Capacitive load	10 μ F
Output range per channel	U_{SP} / GND (0 V), 200 mA (PNP)
- Output logic inner beam (CH1)	NC - light beam free: U_{SP}
- Output logic middle beam (CH2)	NO - light beam free: GND (0 V)
- Output logic outer beam (CH3)	NO - light beam free: GND (0 V)
Indication LED (CH1 - CH3)	On, if light beam interrupted

Electrical connections

Brown	12 ... 60 VDC
Blue	GND (0 V)
White	Channel 1, PNP
Gray	Channel 2, PNP
Green	Channel 3, PNP

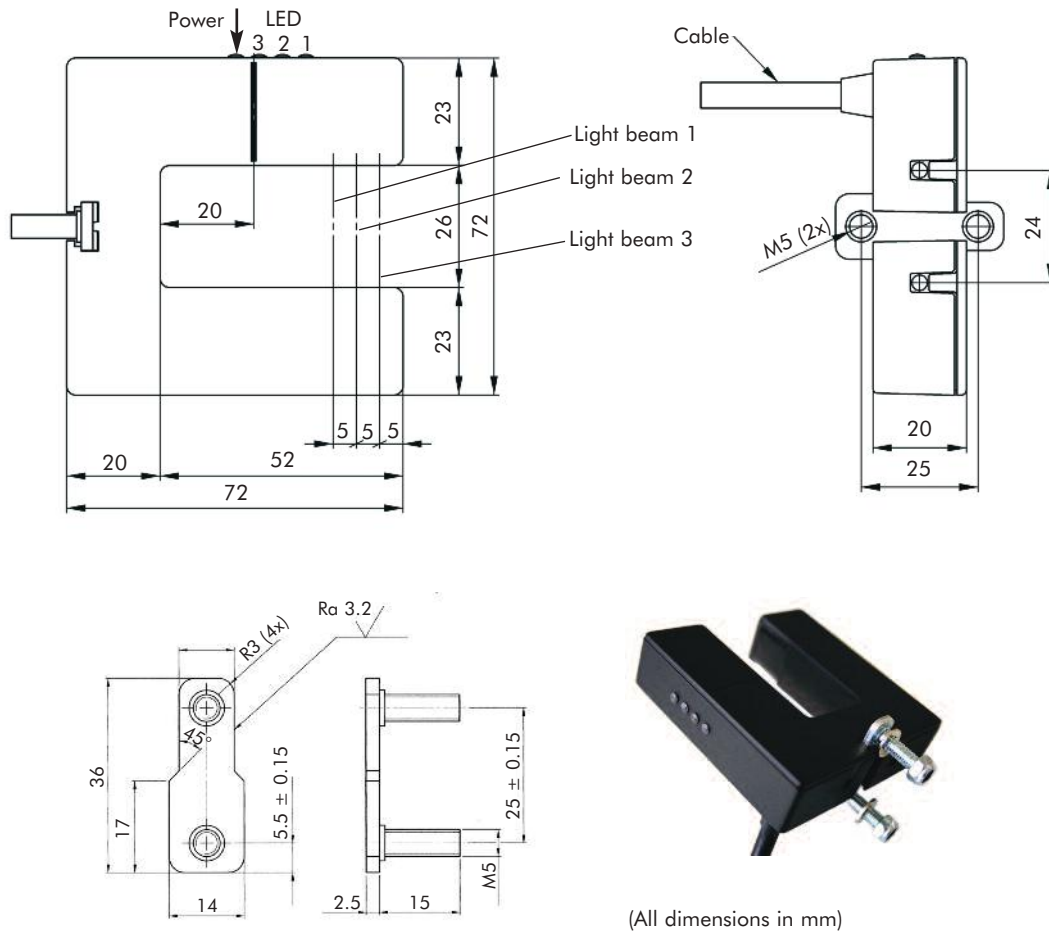
Mechanical

Dimensions (in mm)	72 x 72 x 20
Fork width	26 mm
Enclosure rating	IP65 (similar to NEMA type 4)
Temperature range	-20 ... +65°C

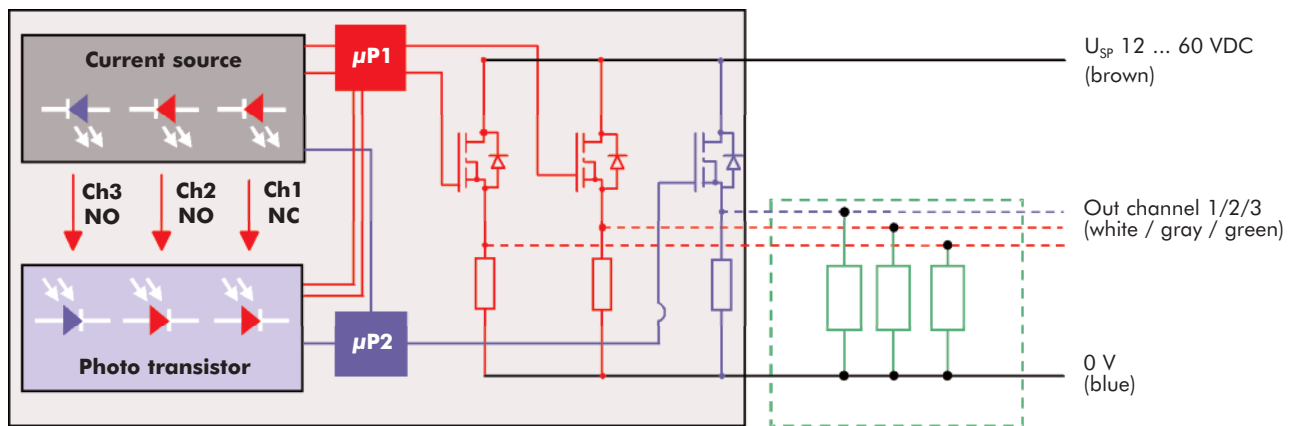
General

EMC / EMI	EN 12015 / EN 12016
Certificates	CE

Dimensions



Block circuit diagram



Output logic definition

Status	Output 1 (white)	LED 1	Output 2 (gray)	LED 2	Output 3 (green)	LED 3
Interrupted	0 V	ON	+ U_{sp} (12 ... 60 V)	ON	+ U_{sp} (12 ... 60 V)	ON
Not interrupted	+ U_{sp} (12 ... 60 V)	OFF	0 V	OFF	0 V	OFF