

**OG25A402****OPTICAL SENSORS • FORK LIGHT BARRIERS**

Special design of through-beam sensor. Transmitter and receiver are located in the fork or angular limbs and are perfectly aligned to each other.

**MECHANICAL DATA**

Ambient temperature	-20 °C ... 60 °C
Aperture diameter	1 mm
Degree of protection (IP)	IP67
Fork depth	80 mm
Fork light barrier design	Furcate
Fork width	25 mm
Housing design	Cuboid
Housing material	Aluminium
Reflector included in the scope of delivery	No
Sensor height	44 mm
Sensor length	8 mm
Sensor width	116 mm

**ELECTRICAL DATA**

Analogue output 0 mA ... 20 mA	No
Analogue output 0 V ... 10 V	No
Analogue output -10 V ... +10 V	No
Analogue output 4 mA ... 20 mA	No
Decay time	0.1 ms
Max. output current	100 mA
Max. switching distance	25 mm
No-load current	80 mA
Number of pins	4
Operating voltage	12 V ... 32 V
Pre-failure message	No
Rated control supply voltage $U_s$ at DC	12 V ... 32 V
Relative repeat accuracy	0.01 mm
Repeatability +/-	10 $\mu$ m
Response time	0.1 ms
Reverse polarity protection	Yes
Scanning function	Dark switching

**ELECTRICAL DATA**

Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching frequency	5000 Hz
Type of electrical connection	Connector M8
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Type of the forked light barrier	Standard
Voltage type	DC
With communication interface, analog	No
With communication interface, AS-Interface	No
With communication interface, CANOpen	No
With communication interface, DeviceNet	No
With communication interface, Ethernet	No
With communication interface, INTERBUS	No
With communication interface, PROFIBUS	No
With communication interface, RS-232	No
With communication interface, RS-422	No
With communication interface, RS-485	No
With communication interface, SSD	No
With communication interface, SSI	No
With monitoring function of downstream devices	No
With other analog output	No
With restart lock	No
With time function	No

**OPTICAL DATA**

Laser protection class	None
Light beam form	Point
Light source	Infrared light
Min. object size	0.6 mm
Resolution	600 µm
Wavelength of the sensor	905 nm

**OTHER DATA**

Feeding technology	Yes
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**DIMENSIONAL DRAWING**

**INSTALLATION**

**DISPOSAL**



Mounting / Installation may only be carried out by a qualified electrician!



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!