

OGKB0371

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

MECHANICAL DATA	
Ambient temperature	-10 °C 60 °C
Degree of protection (IP)	IP67
Fork depth	60 mm
Fork light barrier design	Furcate
Fork width	120 mm
Housing design	Cuboid
Housing material	Zinc die-cast
Material of optical surface	Plastic
Reflector included in the scope of delivery	No
Sensor height	144 mm
Sensor length	12 mm
Sensor width	90 mm
ELECTRICAL DATA	
	No
Analogue output 0 mA 20 mA	
Analogue output 0 V 10 V	No
Analogue output -10 V +10 V	No
Analogue output 4 mA 20 mA	
Decay time	0.25 ms
Hysteresis	0.2 mm
Max. output current	200 mA
Max. switching distance	120 mm
No-load current	45 mA
Number of pins	3
Operating voltage	10 V 35 V
Pre-failure message	No
Rated control supply voltage Us at DC	10 V 35 V
Relative repeat accuracy	0.06 mm
Repeatability +/-	60 μm
Response time	0.25 ms
Reverse polarity protection	Yes

ipf electronic gmbh • Kalver Straße 25 - 27 • 58515 Lüdenscheid - Germany | Tel +49 2351 9365-0 • Fax +49 2351 9365-19 | info@ipf-electronic.com • www.ipf-electronic.com

IPF ELECTRONIC

ELECTRICAL DATA

Stating functionEight year on HodeSetting procedureManual adjustmentShort-circuit-proofYesSuitable for safety functionsNoSwitching frequency2000 HzType of electrical connectionConnector M8Type of switching outputPNPType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, EthernetNoWith communication interface, ROFIBUSNoWith communication interface, RS-232NoWith communication interface, SSDNoWith communication interface, SSINoWith communication interface, SSINoWith communication of downstream devicesNoWith communication of downstream devicesNoWith time function of MonterNoWith time function of MonterNoWith communication interface, SSINoWith time function of MonterNoWith ti	Scanning function	Light-/dark-on mode
Short-circuit-proofYesSuitable for safety functionsNoSwitching frequency2000 HzType of electrical connectionConnector M8Type of switching functionNormally closed contact/normally open contactType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, EthernetNoWith communication interface, RS-POFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith other analog outputNo	-	
Suitable for safety functionsNoSwitching frequency2000 HzType of electrical connectionConnector M8Type of switching functionNormally closed contact/normally open con- tactType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, RS-232NoWith communication interface, RS-232NoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith other analog outputNoWith other analog outputNo		-
Switching frequency2000 HzType of electrical connectionConnector M8Type of switching functionNormally closed contact/normally open con- tactType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, INTERBUSNoWith communication interface, INTERBUSNoWith communication interface, RS-232NoWith communication interface, RS-485NoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith other analog outputNoWith other analog outputNo	·	
Type of electrical connectionConnector M8Type of switching functionNormally closed contact/normally open contactType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-435NoWith communication interface, SSDNoWith communication interface, SSINoWith communication interface, SSINoWith other analog outputNoWith other analog outputNo		
Type of switching functionNormally closed contact/normally open contactType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, RS-132NoWith communication interface, RS-132NoWith communication interface, RS-232NoWith communication interface, RS-232NoWith communication interface, SSDNoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith other analog outputNoWith other analog outputNo		
Type of switching functiontactType of switching outputPNPType of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, SSDNoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith communication interface, SSINoWith communication of downstream devicesNoWith other analog outputNoWith restart lockNo	Type of electrical connection	
Type of the forked light barrierStandardVoltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, RS-232NoWith communication interface, RS-232NoWith communication interface, SSDNoWith communication interface, SSINoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	Type of switching function	
Voltage drop2.8 VVoltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-425NoWith communication interface, SSDNoWith communication interface, SSINoWith nonitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	Type of switching output	PNP
Voltage typeDCWith communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, SSDNoWith communication interface, SSINoWith communication interface, SSINoWith other analog outputNoWith other analog outputNo	Type of the forked light barrier	Standard
With communication interface, analogNoWith communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-232NoWith communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith communication of downstream devicesNoWith other analog outputNoWith restart lockNo	Voltage drop	2.8 V
With communication interface, AS-InterfaceNoWith communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	Voltage type	DC
With communication interface, CANOpenNoWith communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-4455NoWith communication interface, SDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, analog	No
With communication interface, DeviceNetNoWith communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-435NoWith communication interface, SSDNoWith communication interface, SSINoWith nonitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, AS-Interface	No
With communication interface, EthernetNoWith communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith nonitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, CANOpen	No
With communication interface, INTERBUSNoWith communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, DeviceNet	No
With communication interface, PROFIBUSNoWith communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, Ethernet	No
With communication interface, RS-232NoWith communication interface, RS-422NoWith communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, INTERBUS	No
With communication interface, RS-422NoWith communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, PROFIBUS	No
With communication interface, RS-485NoWith communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, RS-232	No
With communication interface, SSDNoWith communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, RS-422	No
With communication interface, SSINoWith monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, RS-485	No
With monitoring function of downstream devicesNoWith other analog outputNoWith restart lockNo	With communication interface, SSD	No
With other analog output No With restart lock No	With communication interface, SSI	No
With restart lock No	With monitoring function of downstream devices	No
	With other analog output	No
With time function 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	0.8 mm
Resolution	800 μm
Wavelength of the sensor	880 nm

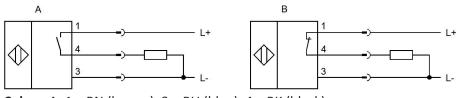
OTHER DATA

Feeding technology	
--------------------	--

Yes

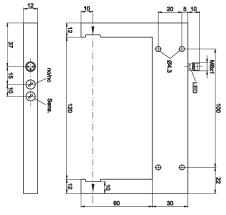


CONNECTION



Colors: A: 1 = BN (brown), 3 = BU (blue), 4 = BK (black) B: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)**Functions:** A: 1 = L+, 3 = L-, 4 = PNP NO B: 1 = L+, 3 = L-, 4 = PNP NC

DIMENSIONAL DRAWING



INSTALLATION



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!