

Sensing strip

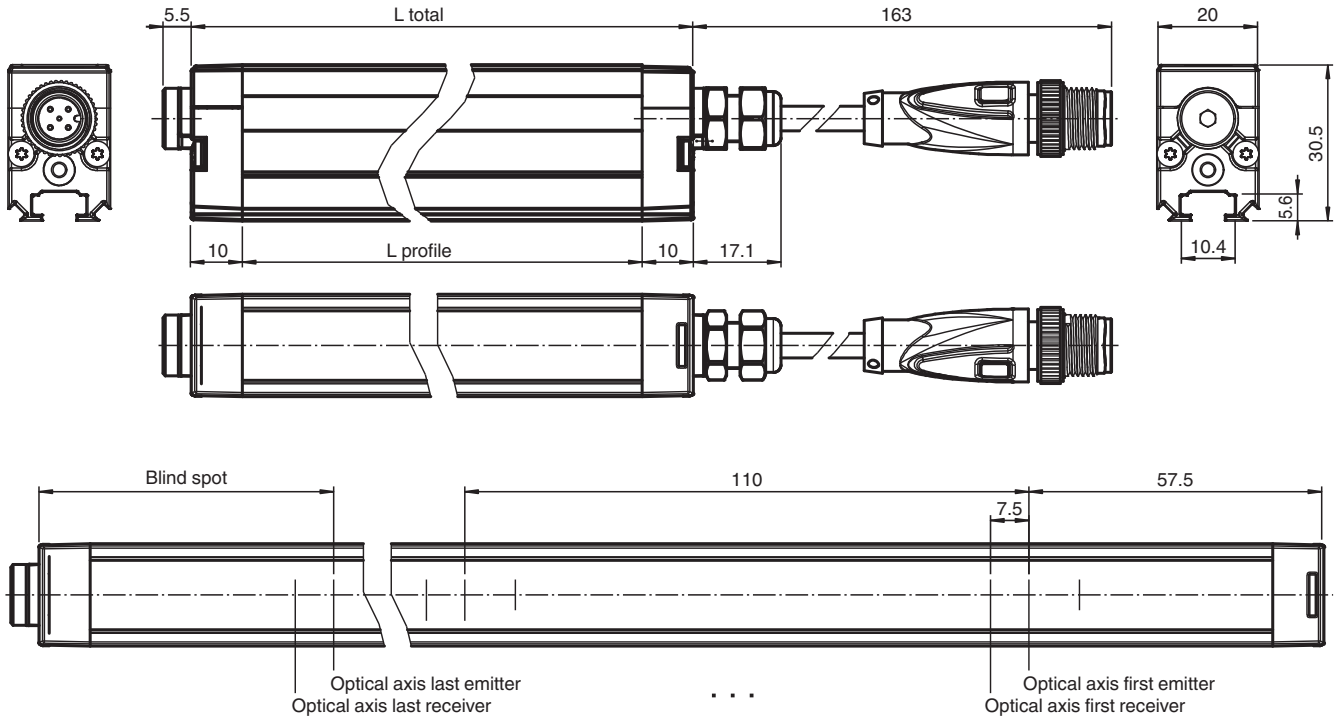
OGT110-2100-LGT-0,2M-V15-IR



- Sensor rail for detection of Euro (KLT) containers according to VDA 4500
- For connection to LGT Lane Control
- Diffused mode with background suppression
- Sturdy aluminum housing

Sensing strip with triangulation sensor with background suppression

Dimensions



Technical Data

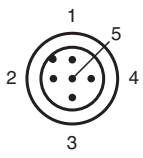
General specifications	
Detection range	2 ... 60 mm
Reference target	standard white, 100 mm x 100 mm
Light source	IRED
Light type	modulated infrared light , 850 nm
Black-white difference (6 %/90 %)	< 20 % at 60 mm
Optical resolution	110 mm
Diameter of the light spot	approx. 5 mm at a distance of 60 mm
Angle of divergence	approx. 5 °
Ambient light limit	EN 60947-5-2 : 30000 Lux

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Technical Data

Indicators/operating means		
Function indicator		1 yellow LED for each sensor lights when object is detected
Electrical specifications		
Operating voltage	U_B	24 V DC
Ripple		max. 10 %
No-load supply current	I_0	see table "Variants"
Protection class		III
Input		
Function input		Clock, transmitter activation
Output		
Switching type		light-on
Signal output		1 NPN per sensor in OR gate Not short-circuit proof
Switching voltage		max. 30 V DC
Switching current		max. 200 mA , resistive load
Switching frequency	f	6 Hz
Response time		85 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
Protection class		III
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 60 °C (-13 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Housing width		20 mm
Housing depth		30.5 mm
Housing length L		see table "Variants"
Degree of protection		IP54
Connection		150 mm fixed cable with plug, M12 x 1, 5-pin
Material		
Housing		extruded aluminum section , Silver anodized
Optical face		Plastic pane , Polycarbonate
Cable length		0.15 m

Connection Assignment



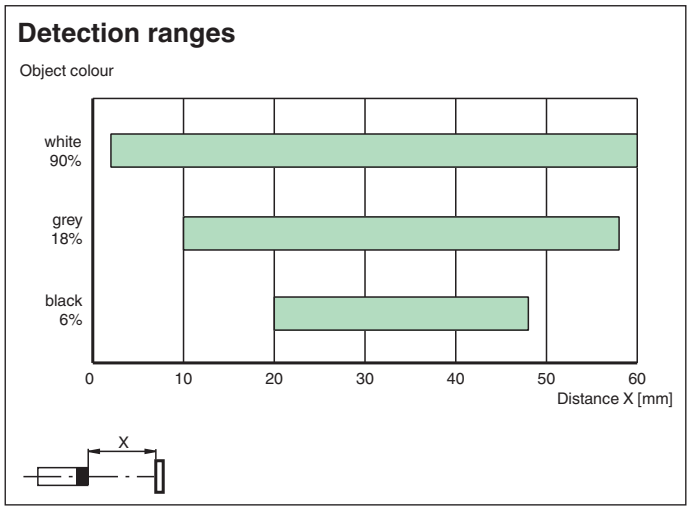
Wire Colors and Pinout Information

1	BN	UB+
2	WH	Data (CLK)
3	BU	0 V
4	BK	NPN output, light-on, not short-circuit proof
5	GY	“Data” input (emitter selection)

Wire colors in accordance with EN 60947-5-2

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Characteristic Curve



Matching system components

	**Maincontroller ICO300-E3815**	Industrial PC
	**ST56EL-ETN-BZ-3-24-RAG**	LED Ethernet stack light, 3 colors, 24 VDC
	**LGT Lane-Control**	Shelf controller with display module for LGT series sensing strip
	**HLG-240H-24ABL**	Power supply, 230 VAC/24 VDC, nominal power 240 W, rated output current 10 A

Accessories

	**MH-LGT-013**	Mounting aid for LGT sensing strip
	**MH-LGT-02**	Mounting aid for LGT sensing strip

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Safety Information

Note!
Property damage due to wrong connection sequence
If you connect the product to electrical equipment while voltage is applied, this leads to damage of the electronic components contained.
Never connect the product to other electrical equipment while voltage is applied.

Note!
Use with or without earthing connection.
If a connection to the protective equipotential bonding is to be provided for the product in the electrical installation, you can install an earthing set for this purpose.
For use in SELV circuits, install the product insulated. In this case, do not connect the product to a protective equipotential bonding system.

Product Versions

Variants

Profile Model Type	Item no.	L total [mm]	L Profile [mm]	Blind Spot [mm]	No. of Sensors	No Load Current [mA]
OGT110-300-LGT-0,2M-V15-IR	70103303	259	239	91.5	2	< 9
OGT110-500-LGT-0,2M-V15-IR	70103304	459	439	71.5	4	< 18
OGT110-800-LGT-0,2M-V15-IR	70103305	759	739	151.5	6	< 27
OGT110-1000-LGT-0,2M-V15-IR	70103306	959	939	131.5	8	< 36
OGT110-1100-LGT-0,2M-V15-IR	70103307	1105	1085	57.5	10	< 45
OGT110-1200-LGT-0,2M-V15-IR	70103308	1159	1139	111.5	10	< 45
OGT110-1400-LGT-0,2M-V15-IR	70103309	1359	1339	91.5	12	< 54
OGT110-1600-LGT-0,2M-V15-IR	70103310	1559	1539	71.5	14	< 63
OGT110-1900-LGT-0,2M-V15-IR	70103311	1859	1839	151.5	16	< 72
OGT110-2100-LGT-0,2M-V15-IR	70103312	2059	2039	131.5	18	< 81
OGT110-2300-LGT-0,2M-V15-IR	70103313	2259	2239	111.5	20	< 90
OGT110-2500-LGT-0,2M-V15-IR	70103314	2459	2439	91.5	22	< 99
OGT110-2700-LGT-0,2M-V15-IR	70103315	2659	2639	71.5	24	< 108
OGT110-3000-LGT-0,2M-V15-IR	70103316	2959	2939	151.5	26	< 117
OGT110-3200-LGT-0,2M-V15-IR	70103317	3159	3139	131.5	28	< 126
OGT110-3400-LGT-0,2M-V15-IR	70103318	3359	3339	111.5	30	< 135

Accessories

Other suitable accessories can be found at www.pepperl-fuchs.com

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