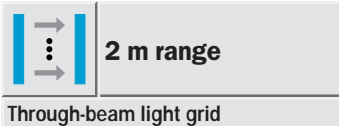


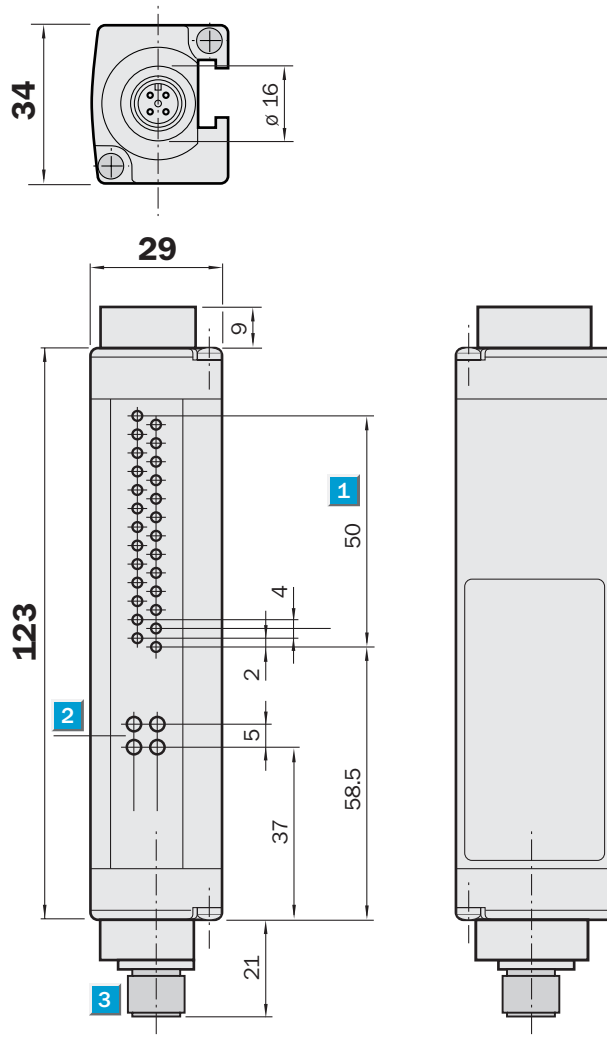
HLG

High resolution
light grid



- 2 mm resolution
- Short response time
- Industrial standard outputs
- Teach-in for optimal sensitivity adjustment

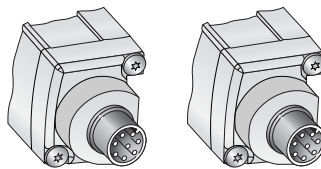
Dimensional drawing



- 1** Detection height: 50 mm
- 2** Status indicator/Power ON
- 3** M12 plug, 8-pin

Connection type

HLGS2-50E811	HLGE2-50E811
HLGS2-50F811	HLGE2-50F811



Sender	Receiver
M12, 8 pin	M12, 8 pin

Sender	Receiver
wht 1 Sync B	wht 1 Sync B
brn 2 L+	brn 2 L+
grn 3 Sync A	grn 3 Sync A
yel 4 NC	yel 4 Teach-in
gra 5 TEST	gra 5 Q
pnk 6 NC	pnk 6 Q̄
blu 7 M	blu 7 M
red 8 NC	red 8 NC

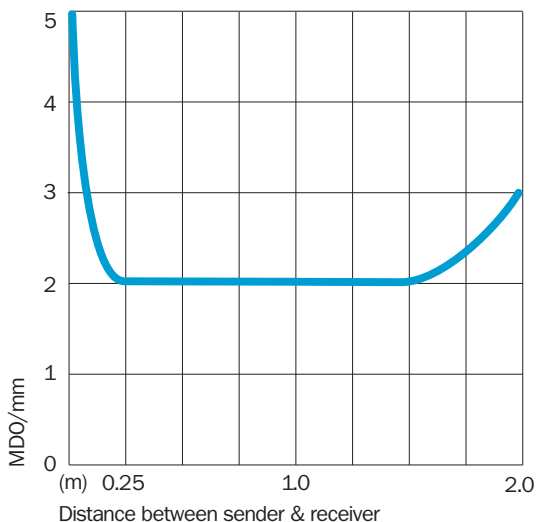
Technical data		HLG2	050 F811	050 E811								
Beam spacing	2 mm											
MDO/Resolution*												
Detection height	50 mm											
Number of beams	26											
Scanning range ¹⁾	0 ... 2 m											
Synchronization	Synchronization by wire Sync A/Sync B											
Light source	LED, infrared											
Supply voltage V_s ²⁾	15 ... 30 V DC											
Residual ripple	< 10 % within V_s tolerances											
Current consumption sender	< 100 mA											
Current consumption receiver ³⁾	< 100 mA											
Connection	M12 Plug, 8 pins											
Switching output ⁴⁾	PNP output: \bar{Q} & Q											
	NPN output: \bar{Q} & Q											
Operating mode	Q dark-switching, \bar{Q} light-switching											
Output current I_A max.	100 mA											
Output load	Capacitive load: 100 nF											
	Inductive load: 1 H											
Test input "TE"	Sender OFF: Test input to V_s											
Response time ⁵⁾	3 ms											
Initialisation duration after Power ON	Max. 800 ms											
High immunity to ambient light	50.000 lx											
VDE protection class	III											
Circuit protection ⁶⁾	A, B, C											
Enclosure rating	IP 54											
Ambient temperature T_A	Operation -25 ... +55 °C											
	Storage -40 ... +70 °C											
Mechanical resistance	Vibration: 5 g/10-55 Hz - IEC 68-2-6											
	Shock: 10 g/ 16ms - IEC 68-2-29											
Weight	Approx. 135 g											
Front lens Material	PMMA											
Housing	Aluminium, anodised											

¹⁾ Max. range: 2 m
Operating range: 1.5 m
²⁾ Limit values

³⁾ Without load at $V_s = 14V$
⁴⁾ NPN on demand
⁵⁾ With resistive load

⁶⁾ A = V_s connection, reverse polarity protected
B = Outputs Q and \bar{Q} short-circuits protected
C = interference suppression

*) MDO: Minimum Detectable Object size measured in a direction parallel to the HLG.



Ordering information	
Type	Order no.
HLG2-050F811	1029853
HLG2-050E811	1041849

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More representatives and agencies in all major industrial nations at www.sick.com

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