



Standard automation light grids PLG, PLG3

PLG3-360F431



Model Name > [PLG3-360F431](#)
Part No. > [1029131](#)



At a glance

- 360° visible job LED
- Range up to 2 m
- Flexible detection heights from 120 mm to 420 mm
- Immune to reflected and ambient light
- Switchable job LED: permanently lit or flashing
- Optically confirms the right bin was picked
- Bus connection possible

Your benefits

- The integrated job LED reduces the order picker's search time
- Low assembly costs thanks to the PLG's clever design
- High availability thanks to an integrated polarizing filter
- Tough aluminum housing ensures that sensor damage is kept to a minimum and helps reduce repair costs
- Reflective tape on the sensor avoids additional assembly and cabling costs



Features

Technology:	Retro-reflective light grid
Task:	Switching light grid
Minimum detectable object (MDO):	Parallel beam: ≥ 35 mm
Beam separation:	30 mm
Number of beams:	13
Detection height:	360 mm

Performance

Maximum range (PL150):	2 m
Minimum range:	≥ 100 mm
Working range (PL150):	1.3 m
Response time ¹⁾ :	Parallel beam: > 100 ms
Maximum range (reflective tape REF-PLG):	1.5 m
Working range (reflective tape REF-PLG):	1 m

¹⁾ With resistive load

Interfaces

Output type:	1 x PNP (Q)
Connection type:	Short cable (0.28 m) with connector M12, 4-pin
Input current:	12 mA
Job LED input:	PNP

Mechanics/electronics

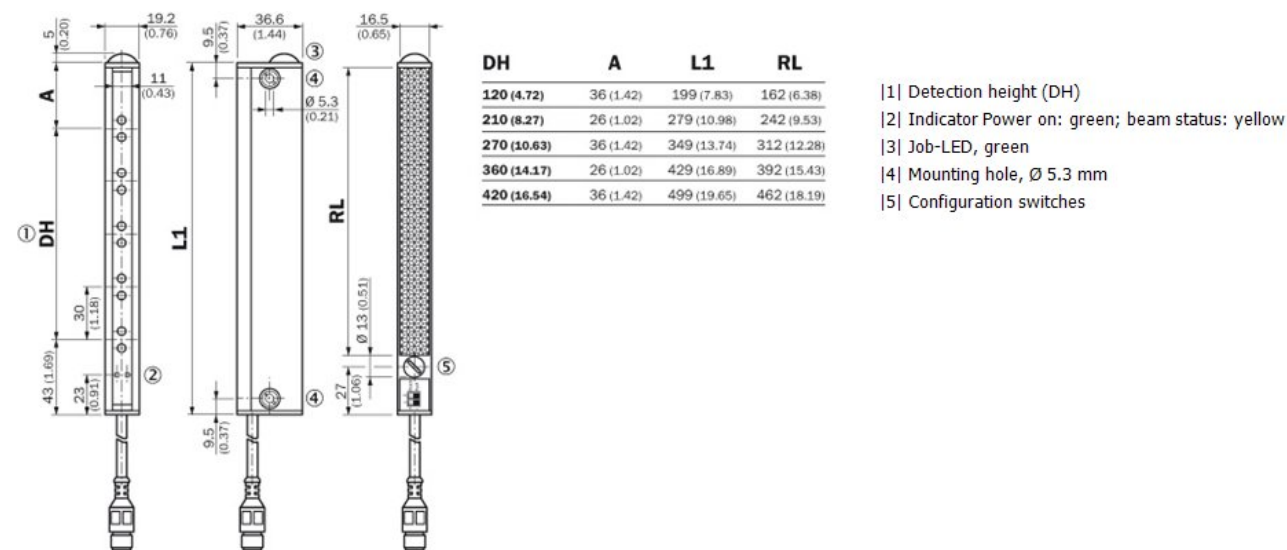
Wave length:	650 nm
Supply voltage V_s ¹⁾ :	DC 15 V ... 30 V
Power consumption:	< 45 mA
Power consumption sender:	< 45 mA
Current consumption job LED ²⁾ :	10 mA
Ripple:	< 5 Vpp
Output current $I_{max.}$:	100 mA
Output load capacitive:	100 nF
Output load inductive:	1 H
Initialization time:	0.6 s
Dimensions (W x H x D):	35.6 mm x 429 mm x 19 mm
Housing material:	Aluminum
Indication:	LED
Enclosure rating:	IP 54
Circuit protection:	Output Q short-circuit protected Interference suppression VS connections reverse-polarity protected
Weight:	450 g
Front screen:	PMMA
Output mode ³⁾ :	Q dark switching

^{1) 2)} Typical value ³⁾ Q = active in case one beam is interrupted, /Q = active in case all beam are free

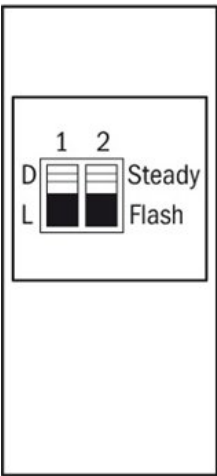
Ambient data

Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -10 ... 55 °C Storage: -40 ... 70 °C
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load:	10 g/DIN EN 60068-2-29/16 ms

Dimensional drawing



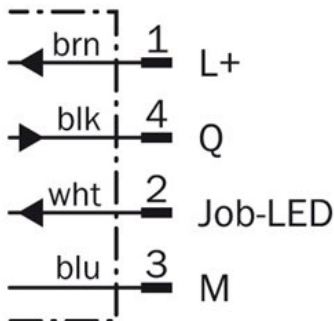
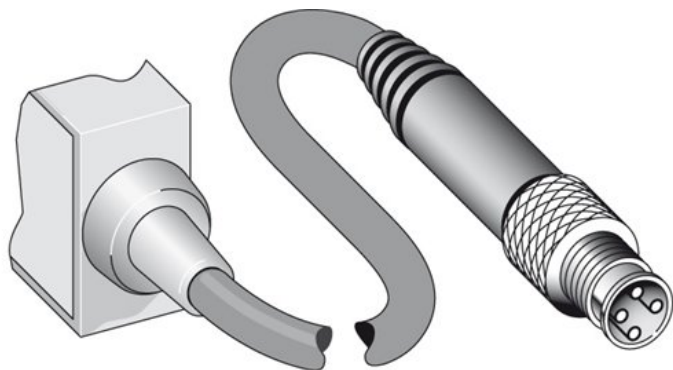
Adjustments



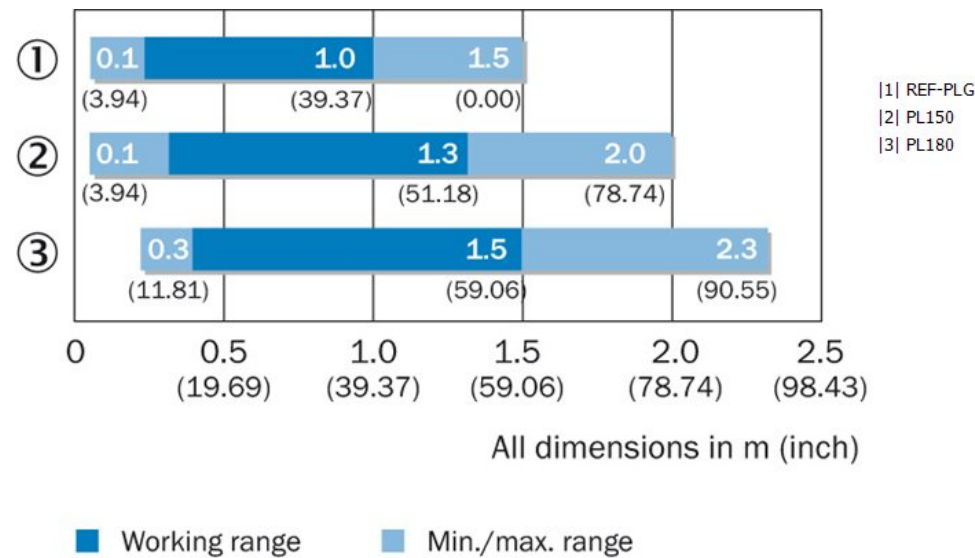
Configuration over switches

Switch 1	D	Output active, in case of blocked beams
	L	Output inactive, in case of blocked beams
Switch 2	Steady	Job-LED steady
	Flash	Job-LED flashes, 3 Hz

Connection type and diagram



Characteristic curve: range



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