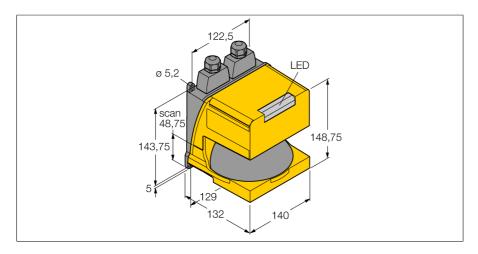


Safety Laser Scanners Stand-Alone Device Up to 8 Protective Fields, Max. 4 m AG4-4E



Туре	AG4-4E	
ID	3082137	
Function	Laser scanner	
Light type	IR	
Wavelength	905 nm	
Laser class	<u></u> 1	
Optical resolution	30 mm	
Range	2004000 mm	
Operating voltage	1728 VDC	
DC rated operational current	≤ 420 mA	
No-load current I _o	≤ 170 mA	
Output function	2 x NC (normally closed), 2 × PNP	
Number of safe semiconductor outputs	2	
Response time typical	< 80 ms	
Design	Rectangular, AG4	
Housing material	ng material Metal, AL	
Lens	plastic, Acryl	
Electrical connection	Connector	
Ambient temperature	0+50 °C	
Relative humidity	095%	
Protection class	IP65	
Special features	Laser	
Switching state	LED, Green	
Error indication	LED, red	
Excess gain indication	LED, yellow	
Tests/approvals		

- Parametrized via software
- Angular range max. 190°
- Angular resolution 0.36°
- Electrical connection via SUB-D15 connector
- Connection cable AG4-CPD15 (not incl. in delivery)
- 8 protective fields adjustable
- Laser class 1 acc.to EN 60825-1
- Resolution 30 mm at a distance of 1600 mm
- Resolution 70 mm at a distance of 4000 mm
- Minimum radiance factor 1.8% in protective field
- Protective field 0.2 ... 4 m
- Warning field 0.2...15 m
- Scan field 0...50 m
- Minimum radiance factor 20% in warning field
- Operating voltage 17...28 VDC
- Protection class IP65
- Personnel safety category PLd acc. to ISO 13849-1
- Category 3 acc. to EN 945-1, type 3 (IEC 61496)
- SIL 2 to IEC 61508

Functional principle

The safety sensor AG4-4E is a photoelectric, two dimensional measuring laser scanner. The safety sensor emits light pulses periodically via a rotating deflection unit. The light pulses are reflected by obstacles, like persons for example and then analysed by the safety sensor. The exact position of the obstacle is determined from the light-travel time and the current angle of the deflection unit. An obstacle located within the predefined protective field causes the safety sensor to initiate a safety-oriented shutdown of the safe switching outputs. Only when the protective field is free again, does the safety sensor reset the safety-oriented shutdown, either following confirmation or automatically, depending on the operating mode. The safety sensor can even detect people wearing very dark clothes with a very low radiance factor.



Accessories

Type code	Ident no.		Dimension drawing
AG4-MBK1	3082139	Mounting panel, black, plastic, wall mounting	

Function accessories

Type code	Ident no.		Dimension drawing
AG4-TB1	3082141	Configuration and test box for AG4	
UM-FA-11A	3081228	Safety module, 3 NC outputs, 1 NO auxiliary output, 7 A max., 25 ms response time	118 118 200 22,5
SC-SC22-3	3079715	Safety controller with 3 safety outputs and 22 inputs, programmable	XM Card 131 131 132 135 130 LED
MMD-TA-12B	3075091	Muting module, 2 PNP OSSD outputs, 1 PNP auxiliary output, 0.5 A output current, 10 ms response time	SSI MSSI Override J Display J Status 118