

ILD-201-S/E

F 0158

II 2 G EEx d IIC T6

II 1/2 D IP67 T90°C

ISO 9001:2000/ATEX

Light Barriers IRL/ILN/ILD-201-S/E Housing M30

- · Good penetration capacity in polluted areas.
- Optimal alignment by visualization by LED into ٠
- receiver optic • red illuminated emitter lens
- short response time
- robust light barrier for industrial applications



Туре	IRL-201-S/E	ILN-201-S/E-GD	ILD-201-S/E
Technical Data	(-S39)	(-S39)	
Type of Ex protection, Gas at 09/9EC	none	II 3 G EEx nA II T6	II 2 G EEx d IIC T6
Type of Ex protection, Dust at 09/9EC	none	II 3 D IP67 T90°C	II 1/2 D IP67 T90°C
Applicable in Ex Zones		2, 22	1, 2, 20/21, 22
Designation	I201-S: emitter / I201-E: receiver		
Range	120m		
minimum detectable object size	22mm (avoid mirror effects)		
Light source	Infrared 880nm		
Beam pattern (on a distance of 10m)	Emitter: appr. 8° / Receiver: appr. 12°		
Response time / switching frequency	14ms / 75Hz		
Supply voltage	24 VDC (20 to 28VDC)		
Current consumption, emitter	45mA		
Current consumption, receiver	40mA		
maximum power dissipation	Emitter: 1.26W / Receiver: 0.7W		
Output	Push-Pull, 100mA, short circuit protected		
Output, pollution indication "VA"	Push-Pull, 100mA, short circuit protected		
Housing	M30, yellow brass, nickel plated		
Protection rating at EN 60529	IP 65	IP 67	IP67
Operating temperature TA	-20°C < TA < +50°C		
Connection cable	2/4+PE x 0.5mm ² + Shield / L=10m		
Connection, IRL/ILN-201-S/E(-GD)- S39	Connector, Binder series 423 (09-0115-00-05), 5 terminals		
Accessories, included, all types	- 4 nuts M30 (or 2 clamps M30 optional)		
Accessories, included, only type ILN-201S39	- 2x Warning plate "Do not separate when supply voltage		
	connected", self-sealing, for gluing on the cable connectors.		
	-2X warning plate D0 not separate when supply voltage		
	cable connectors.		
	- 2x Protection cap for the sensor connectors.		
Accessories optional	- Cable connector for ILN S39, Binder 423, 5 terminals		
Options	- Emitter with disable input DI: Type: I201-S-DI		
	- Special lense glueing (nigh solvent resistant): Type: 1201-5/E 594		
	- with fitted optic M42.	Т	vpe: I201-S/F / M42
LED Indication		·	
Function			
	Light beam interri Beceiver- I ED's sl	hows red Roo Light	beam not interrupted
Output and connection diagram:		+20-28VDC	
Receiver: Emitter:		1/brown $+$ (1)	PNP-ON 1/brown
1 / brown = + 1 / brown = +			
2/blue =- 2/blue =-		3 /black	$-\frac{111352}{-100}$ $3/black$
3/black = Output (3/black= DI)			
Shield connect tot PE or Minus (-)			
		- 2/blue	2/blue
Pollution indication output VA	VA-Out = 0	V VA=24	V only if LED=GREEN
Alignment and Controlling by	LED red: Light	beam interrupted	/ not aligned
LED Display	LED yellow: pollute	ed lenses	/ badly aligned
	LED green: Light beam free / well aligned		
	visible red light illuminated emitter lens		
AIEX related designations	CE 0158 Manufacturer with address		
	Certification number: II D: D DMT 99 ATEX F 056/N1		
	TA: -20° < TA < 50° Electrical data according to the chart		
	Date of construction: Numeral 4 and 5 of the serial number		



load can be connected between the output and +24VDC or 0V. Pollution indication output VA:

Pollution indication output V

Only when the receiver LED's shows green, the pollution indication output VA switches to +24VDC. (Light barrier well aligned, no pollution or no other impairments). If the receiver LED's shows yellow or red, the output VA is switched to 0V. This function gives the possibility to a fast reaction at polluted lenses.

Arrangement of light barriers:

If several light barriers are installed close to another, each light barrier has an influence on each other. For an arrangement with multiple light barriers please choose the type IRL/ILN/ILD-201-S-DI.

module "Production", declares: Hans Bracher, Matrix Elektronik AG

of in accordance with local waste disposal regulations.

Declaration of Conformity/Approvals:

siliconized substances and use a minimum of energy and re-

sources. No longer usable or irreparable units must be disposed

The conformity of the devices with the EC standards and

directives and the EC-type examination certificate and the obser-

vation of the Quality Safety System ISO 9001:2000 with the ATEX

IRL201M30_gd_e8,JUN.28,06HB

J. Joedin

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DMT 99 ATEX E 056/N1

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