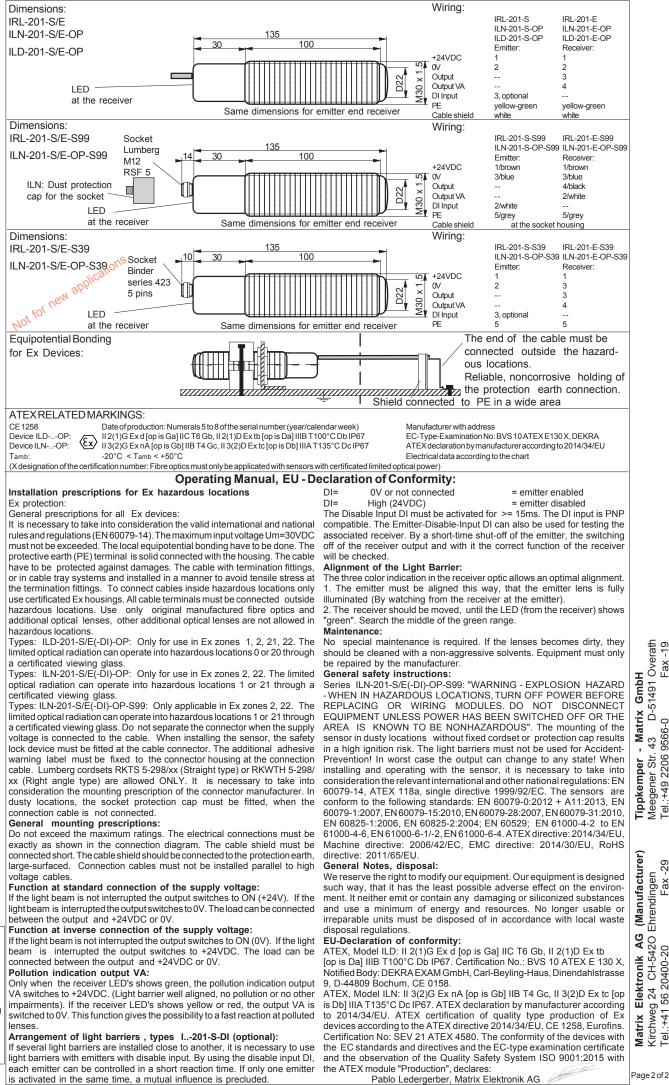
	Der [®] _{Iso}	9001:2015 ATEX	
Light Barriers IRL-2 ILD-201-S/E-OP I 258 I 258 I 2(1)G Ex d lop is Gal IIC T6 Gb	D1-S/E / ILN-201-S/ penetration capacity in polluted a nal alignment by status visualizati visible red light of the transmitter optional emitter disable input DI s ILD: For use in Ex-Zones (0), 1, al radiation can operate into Ex Z s ILN: For use in Ex-Zones (1), 2, al radiation can operate into Ex Z	(E-OP / ILD-201-S ireas. IL ion trough receiver optic 2, (20), 21, 22 iones 0, 20 (21), 22 iones 1, 21 II 3(2)G Ex nA	CICKII UIIIK UG
II 2(1)D Ex tb [op is Da] IIIB T100°C Db IP67 • Robu	st light barrier for industrial applic		[op is Db] IIIA T135°C Dc IP6
Technical Data Type Designation Emitter + Receiver	IRL-201-S/E(-DI)	ILN-201-S/E(-DI)-OP -S = Emitter / Ixx-201-E = Re	ILD-201-S/E(-DI)-OP
Designation, with optional emitter disable input DI	Ixx-201-	S-DI(-OP) = Emitter with disab	ble input
Type of ex protection Gas, according to 2014/34/EU Type of ex protection Dust, according to 2014/34/EU	NONE NONE	II 3(2)G Ex nA [op is Gb] IIB T4 Go II 3(2)D Ex tc [op is Db] IIIA T135°C Dc IP67	II 2(1)G Exd [op is Ga] IIC T6 Gb II 2(1)D Extb [op is Da] IIIB T100°C Db IP67
Applicable in Ex zones	NONE	2(1), 22(21)	1(0),21(20)
Sensing range Minimum detectable object size		120m 22mm (avoid mirror effects	5)
Light source		Infrared 870nm	
Maximum radiant power Maximum radiant intensity	NOT LIMITED NOT LIMITED	<=35mW <=5mW/mm ²	<=15mW <=5mW/mm ²
Directional angle (at a distance of 10m)		nitter: appr.8° / Receiver: app	
Response time		5ms	
Power up delay time Supply voltage		500ms 24 VDC +-15%	
Absolute maximum supply voltage Um		30VDC	
Current consumption, emitter	45mA	55mA	55mA
Current consumption, receiver		40mA	4 4101
Maximum power dissipation Output		itter: max. 1.93W / Receiver: ull type, 100mA, short circuit	
Pollution indication output "VA"		ull type, 100mA, short circuit	
Emitter disable input, only type I201-S-DI(-OP)		PNP compatible	
Housing Enclosure rating, according to EN 60529	IP 65	M30, brass, nickel plated IP67	IP67
Ambient working temperature range Tamb Note 1	1 00	-20°C < Tamb < +50°C	11 07
Storage temperature range	-20°C +70°C		
Relative humidity Pollution degree, according to EN 60664-1		<u>15% 90%, noncondensing</u> 4	
Utilization category, according to EN 60947-5-1/2		DC13	
Vibration and shock resistance		g over 20Hz to 2kHz. Shock:	
Connection cable		Ilation, AWM 20236, 2/3/4+PI s numbering marked, oil resist	
Cable length	10m	10m	10m
Socket M12, only types IRL/ILN-201-S/E(-OP)-S99	M12 RSFM 5, 5 pins	M12 RSFM 5, 5 pins	
Socket series 423, only types IRL/ILN-201-S/E(-OP)-S (Not for new applications)	39 Binder model 423, 5 pins Not for new applications	Binder model 423, 5 pins Not for new applications	
Accessories, all types	- 4 nuts M30 or optional 2 cla		
Accessories, only type ILD-201-S/E-OP-S202	- 4 nuts M30 and 4 nuts M35		
Accessories, only type ILN-201-S/E-OP-S99 Accessories, optional for the types S99	 connection. (black syr 1x Warning plate "Do no self-sealing, for gluing 1x Protection cap for the 	t open/close when supply volt on the cable connector.	age connected",
Accessories, optional for the types S39		3, 5 terminals. Not for new ap	
Options:	- Cable length up to 100m:	On request.	•
	- Type I201-S(-OP) -DI : - Type I201-S/E(-OP)/ M42	: With emitter disable With special optic M4	
	- Type IRL/ILN-201-S/E(-OP		series 423,5 terminals.
		Not for new applicati	
	- Type I201-S/E(-OP)- S94 - Type IRL/ILN-201-S/E(-OP		
	- Type IRL/ILN-201-S/E(-OP - Type ILD-201-S/E-OP- S20)-S162: With special cable T	
LED indication			
Principle function			· · · · · · · · · · · · · · · · · · ·
	Light beam inter		beam not interrupted
	LED's shows	red LED's	shows yellow or green
Output function and wiring diagram (cable):		1: +24VDC	• 1: +24VDC
For socket types, see page 2 Receiver: Emitter:		f k (PNP=ON
4	C Υ R 15Ω		$R_{15\Omega}$
1 = +24VDC 1 = +24VD		3: Output	
2 = 0V 2 = 0V		$ \sqrt{-1} $	NPN=OFF
2 = 0V 2 = 0V 3 = Output 3 = DI (N2	´ │ Ț ——————————————————————————————————		E NA 1 -
2 = 0V 2 = 0V		Ρ Ν	
2 = 0V 2 = 0V 3 = Output 3 = DI (N2 4 = VA-Output yellow-green = PE yellow-green = PE yellow-green = PE (Cable shields, connect to PE)	NPN=ON	2: 0V -	• 2: 0V
2 = 0V 2 = 0V 3 = Output 3 = DI (N2 4 = VA-Output yellow-green = PE yellow-green = PE yellow-green = PE (Cable shields, connect to PE) Alignment and controlling by LED Image: Control in the state of t	LED red: Light beam	interrupted / not aligned	
2 = 0V 2 = 0V 3 = Output 3 = DI (N2 4 = VA-Output yellow-green = PE yellow-green = PE yellow-green = PE (Cable shields, connect to PE)	LED red: Light beam LED yellow: polluted len	interrupted / not aligned ses / badly aligne	
2 = 0V 2 = 0V 3 = Output 3 = DI (N2 4 = VA-Output yellow-green = PE yellow-green = PE (Cable shields, connect to PE) Alignment and controlling by LED display:	LED red: Light beam LED yellow: polluted len LED green: Light beam visible red light source of th	interrupted / not aligned ises / badly aligne free / well aligned ne emitter lens	d
2 = 0V 2 = 0V 3 = Output 3 = DI (N2 4 = VA-Output yellow-green = PE yellow-green = PE yellow-green = PE (Cable shields, connect to PE) Alignment and controlling by LED Image: Control in the state of t	LED red: Light beam LED yellow: polluted len LED green: Light beam visible red light source of the polaritiy of the supply voltage of	interrupted / not aligned ises / badly aligne free / well aligned ne emitter lens	d 0V, wire No. 2 = +24VDC)



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