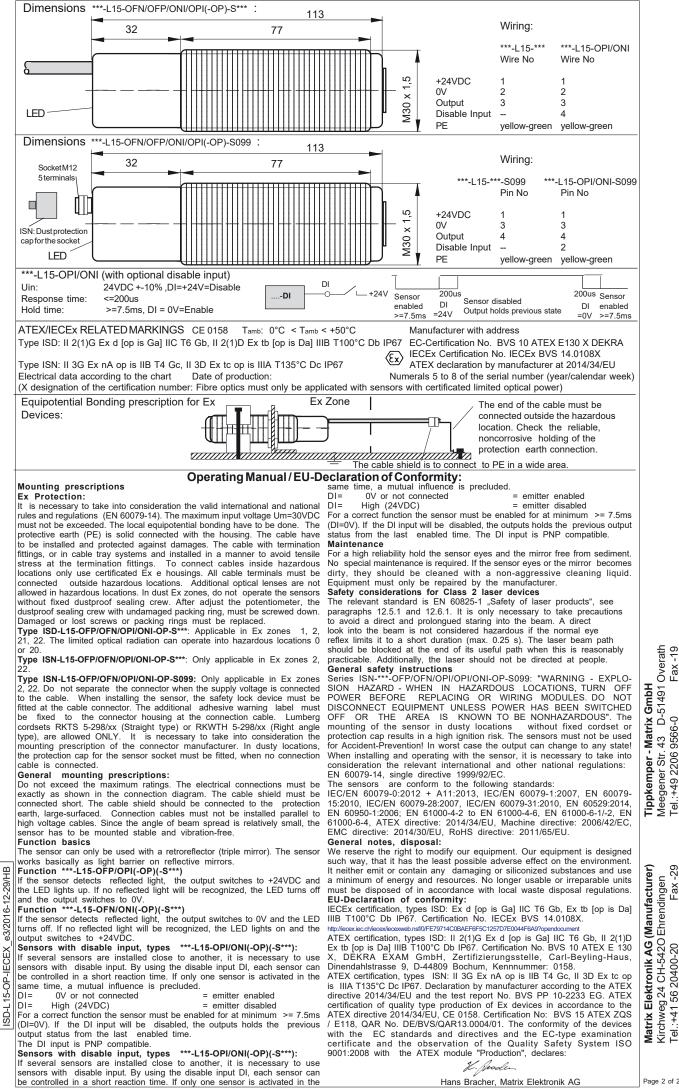
		inal Operating Manual:	
Retroreflective Light Barriers series ISS/ISN/ISD-L15-OFN/OFP(-OP)			
ISD-L15-***-OP IECEX BVS 14.0108X Housing M30		ISN-L15-***-OP	
		Long sensing range Series ISD: ATEX and IECEx certified	
		• ISD: For use in Ex zones (0), 1, 2, (20), 21, 22	
		optical radiation can operate into Ex Zones 0, 20	
	$\langle \xi_{\mathbf{Y}} \rangle$	• ISN: For use in Ex zones 2, 22	
	IECEx-Designation Ex d [op is Ga] IIC T6 Gb	Robust retroreflective light barrier for industrial applications	
	II 2(1)G Extb [op is Ga] IIC 10 GD II 2(1)D Extb [op is Da] IIIB T100°C Db IP67		II 3G Ex nA op is IIB T4 Gc II 3D Ex tc op is IIIA T135°C Dc IP67
	Technical Data Type	ISS-L15-*** ISN-L15-***-	
		*** : Output function, OFN (n-type), OFP (p-type),	
		types with emitter disable input: ONI (n-type), OPI (p-type)	
	Operating range (on reflector D = 83mm) Type of Ex protection, Gas, according to 2014/34/EU	0.3m 15m NONE II 3G Ex nA op is IIE	
	Type of Exprotection, Dust, according to 2014/34/EU	NONE II 3D Extropis	
		T135°C DcIP	67 T100°C Db IP67
	For use in Ex Zones Response time	None Zones (1), 2, (21 5m	
	Powerup delay time	500r	ns
	Light source	Laser, visible red, 650r < 0.	
	Beam divergence (at a distance of 2m) Maximum radiant intensity	NOT LIMITED <=5mW/mm ²	
	Maximum radiant power	NOT LIMITED <35mW	<15mW
	Supply voltage Absolute maximum input voltage Um	2	4VDC +-10% 30VDC
	Maximum current consumption	60mA	
	Maximum power dissipation	1.6W	
	Output, series ISS/ISN/ISD-L15-***(-OP)-S*** Output, series ISS/ISN/ISD-L15-***(-OP)-S225		rcuit protected, maximum 100mA uit protected, maximum 100mA
	Utilization category, according to EN 60947-5-1		DC-13
	Emitter disable input, only types ISS/ISN/ISD-L15-ONI/OPI(-OP) Housing	PNP compa	tible, Ri=10kΩ,optional, Ms 58, nickel plated
	Enclosure rating, according to EN 60529	IP65 IP6	
	Ambient working temperature range Tamb		Tamb < +50°C
	Storage temperature range Relative humidity)°C +70°C %, noncondensing
	Vibration and shock resistance	Vibration: 30g over 20Hz to 2kHz. Shock: 100g for 3ms	
	Pollution degree, according to EN 60664-1:2007 Device designation, according to EN 60947-5-2		
	Connection cable	***-L15-OFN/OFP:R3A30CS1/***-L15-OFN/OFP-S225:R3A30CN1/***-L15-OFN/OFP-S099:R3A30CS2 3 + PE x 0,5mm ² , TPU, oil resistent, shielded, leads numbering marked, length: 3m	
	Connection cable, types ISS/ISN/ISD-L15-OPI/ONI(-OP)	4 + PE x 0,5mm ² , TPU, oil resistent, shielded, leads numbering marked, length: 3m	
	Socket, types ISS/ISN-L15-***(-OP)-S099 Accessories included, all types	Socket M12, Lumberg type RSFM 5, 5 terminals - 2 nuts M30 (or 1 clamp, on request)	
	Accessories, included, only ISN-L15-***-OP-S099	- 1x Safety lock device, mount at the cable connection, for locking the connection. (black synthetic device)	
		- 1x Warning plate "WARNING - Explosion Haza Is Known To Be Non-Hazardous", self-sealin	rd - Do Not Disconnect While Circuit Is Live Unless Area
	Accessories, not included, only ISS/ISN-L15-***(-OP)-S099	- Cord Set Lumberg RKTS 5-298/xx (straight type	e), or RKTW/RKWTH 5-298/xx (right angle type)
	Options	-Switching frequency: Up to 1kHz, on request -Cable length: Up to 100m, on request	
		-ISS/ISN/ISD-L15- OPI (-OP) With emitter disable input, output function "P"	
		-ISS/ISN/ISD-L15-ONI(-OP) With emitter disable input, output function "N"	
			th socket M12, type RSFM5, 5 pins th NPN output, function NO
			th NPN output, function NC
		- /	/
	Function and display		
		►> 	
		Light beam interrupted LED = OFF	Light beam reflected by the triple mirror LED = ON
	Function: ***-L15-OFP(-OP)	• +24VDC	0 +24VDC
	Cable Socket	\sum (PNP=OFF	T (PNP=ON
	+24VDC 1 1 0V 2 3	γ $R_{15\Omega}$	P R15Ω
	Output 3 4		
	Disable input (onlyDI) 4 2 PE yel-grn 5	+ NPN=ON	
	PE yel-grn 5 Cable shield white		
		Y Y	
e3/2016-12-29/HB	Function: ***-L15-OFN(-OP)	• +24VDC	• +24VDC
29/	Cable Socket	$\uparrow \downarrow \downarrow \downarrow$)PNP=ON	
12-	+24VDC 1 1	δ Γ.15Ω	β Γ _{R15Ω}
16-	0V 2 3 Output 3 4		Output
3/20	Disable input (only*-L15-ONI/OPI-* 4 2		
	PE yel-grn 5		T' (NPN=ON
Т	Cable shield white	Y Y	
Ш		OV	
ISD-L15-OP-IECEX	Function: *** 15 OED/ OD) \$225		
5-0	Function: ***-L15-OFP(-OP)-S225 Cable Socket		
Ę	+24VDC 1 1	R 15Ω	R 15Ω
IS	0V 2 3 Output 3 4	C-WVO Output	C-WVO Output
	Disable input (only*-L15-ONI/OPI-* 4 2	+ NPN=ON	NPN=OFF
	PE yel-grn 5 Cable shield white		
			<u> </u>



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