

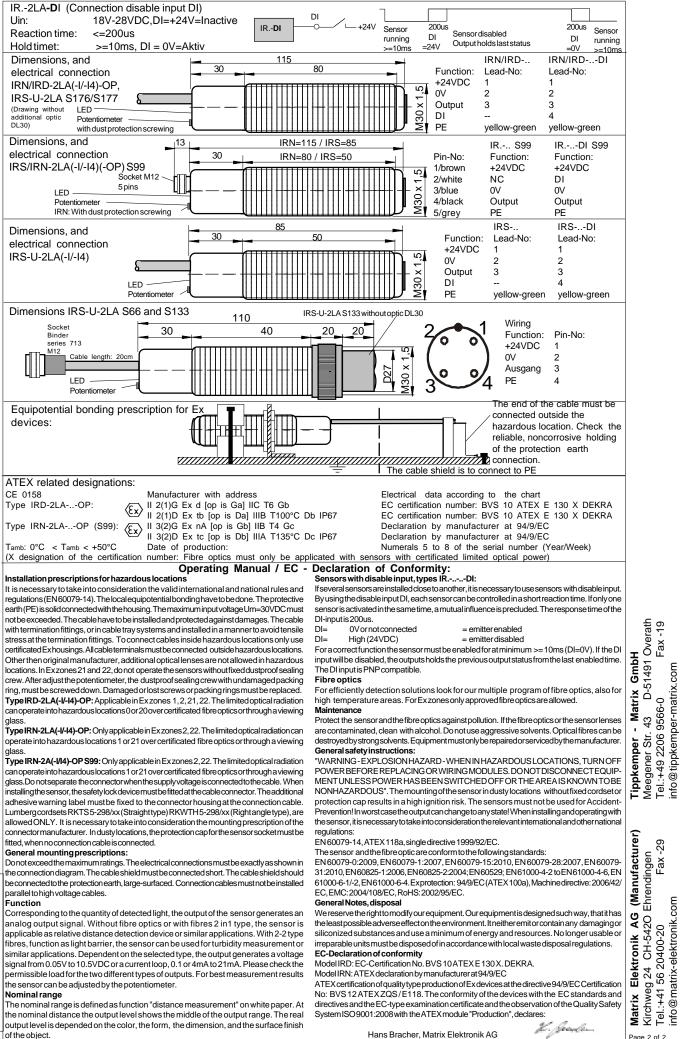
ISO 9001:2008 / ATEX



Photoelectric Sensor with Analog Output IRS/IRN/IRD-2LA(-OP)

IRN-2LA/AI/A-I4-OP		Housing I	M30	IRD-2LA/AI/A-I4-OP
CE	 Applicable 		ement or position detection	C E ⁰¹⁵⁸
			ith glass fibre optics at types of fibre optics,	
(Ex)	also as lig	ht barrier		(Ex)
II 3(2)G Ex nA [op is Gb] IIB T4 Gc			ones (0), 1, 2, (20), 21, 22 ones (1), 2, (21), 22	II 2(1)G Ex d [op is Ga] IIC T6 Gb
II 3(2)D Ex tc [op is Db] IIIA T135°C D	c IP67 Type V-Out	IRS-U-2LA	IRN-2LA-OP	II 2(1)D Ex tb [op is Da] IIIB T100°C Db IP6 IRD-2LA-OP
Technical data	Type I-Out	IRS-U-2LAI/-I4	IRN-2LAI/-I4-OP	
Type of Ex protection Gas, at 94/9/EG		none		IIB T4 Gc II 2(1)G Ex d [op is Ga] IIC T6 Gt
Type of Ex protection Dust, at 94/9/EC Applicable in Ex Zones	j	none	(1), 2, (21), 22	5°C Dc IP67 II 2(1)D Ex tb [op is Da] IIIB T100°C Db IP6 (0), 1, 2, (20), 21, 22
Output signal range, voltage		none	0.05VDC - 10.5VDC(R	
Output signal range, current			1mA - 21mA (Ripple:<40uA)), (4mA - 20mA optional)
Voltage output, nominal range, on white			DC output voltage at a dis	
Current output, nominal range, on white Working range, adjustable (on white page		10	mA output current at a dist 5VDC/20cm or	
Light source	Del A4, 809)		Infrared 8	
Optical Beam pattern			appr.1	2°
Response time			5ms	
Power up delay time Supply voltage			70ms 24VDC +	-15%
Current consumption			60m/	
Maximum power dissipation			1.4W	
Output type, voltage, IR.(-U)-2A Output type, current, IR.(-U)-2A-I			P, output impedance appr. N, output impedance appr. {	
Input, only types IRDI (Disable inp	ut)	INP	PNP compatible	
Housing			M30, brass, ni	ckel plated
Enclosure rating, at EN 60529		IP 54	IP 67	
Vibration and shock resistance Working temperature range Tamb		-20°C +60°C		o 2kHz. Shock: 100g for 3ms °C -20°C < Tamb < +50°C
Storage temperature range			-30°C	+70°C
Connection cable				led, leads numbering marked, length: 3m
Connection cable, types IRDI Socket, types IRS/IRN S99			236, 4+PE x 0.5mm ² , shield _umberg, M12 male recepta	led, leads numbering marked, length: 3m
Accessories, all types			1 clamp on request)	acie, type RSF 5 contacts
Accessories, types IRN/IRDOP		- 1x Spare safe	ty screw with packing ring	for potentiometer sealing
ccessories, types IRNOP S99		 1x Safety lock device, mount at the cable connection, for locking the connection. (black synthetic device) 		
				n supply voltage connected", self-sealing,
		for gluing on	the cord set.	
			cap for the sensor socket.	
Accessories, not included, only for IR: Options:	S/IRN \$99	- Cordset Lumb	erg RKTS 5-298/xx or RK	WIH 5-298/xx
	to 100m on reques	st.		
- IRS-U-2LA S66 : Soc - IRS/IRN-2LA S99 : Witt - IRN-2LA-I4-OP S110 : Witt - IRS-U-2LA S133 : Soc - IRS/IRN/IRD-2LA-I4(-OP) S137 : Rec and - IRS-U/IRN/IRD-2LA(-OP) S155 : Res - IRS-U-2LA S176 : Wor	ket M12, Binder 71 n socket M12, Lum n additional optic E ket M12, Binder 71 luced optical power the probe QPR-6// ponse time: 1.5ms king temperature ra	I3/4-pins, at cable berg RSF5. D_30. I3/4-pins, at cable r for level measur 320. s. ange: -20°C to +8	200mm. ement with the fibre optic t 0°C, additional optic DL30,	.30, range: 5V at a distance of appr. 75cm. ype SKM-2000-2-T-FG range: 5V at a distance of appr. 75cm.
	King temperature ra	ange: -20°C to +1	UU°C, additional optic DL30	, range: 5V at a distance of appr. 75cm.
Function and LED indication		Light barrier -		
		with fibre optic	Light beam free	with fibre optic
		Provimity owitch		
		Proximity switch	╼┥╴╴╴╶╶╶	Proximity switch
		Proximity switch		Proximity switch
		with fibre optic	of the LED and the	with fibre optic
			dependant on the	No light detected. Output=Off, LED=OF
		quantity of the		
Wiring and connection			0	+24VDC
)FF	0.1-21mA (4-20mA) (A)
		$R_{25\Omega}$		(4-20mA) A R 500Ω
			o Output	
			0.05-	
		IRS/IRDA V-Out	(V)10.5VDC	IRS/IRDA-I I-Out
			\smile	$+ \smallsetminus \mathcal{V}$
Output diagram			→0V (-)	0V (-)
(measured on white paper,	20			
80g, 20cmx30cm)	18			
Potentiometer on MINIMUM and	੍ਰ ਤੋਂ ¹⁶			
MAXIMUM		N⊨⊨⊨⊺		
	.5 2 12			
	Iout in mA out in VDC * 01 71 11			
	Iout in mA Vout in VDC/2 8 01 10 10 10 10 10 10 10 10 10 10 10 10			
	6			
	4			
	2.5	7.5 12.5	17.5 22.5 27.5 32	.5 37.5 42.5 47.5 52.5 57.5

Distanz in cm



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