Tippke	ISO 9001:2008 / ATEX					
	DR-11xx	P / IDN-11x	xP-GD / ID	DD-11xxP-G	<i>elektronik ag</i> iD	
Photo-Sensors	s with TEA	ACH-IN functi	on and adju	stable sensit	ivity	
IDD-11P-GD		Housing M3	0	IDN-11P-GD	-	
• Adjust • Wella		ment by " I each-In" function pplicable with different fibre optics		(6		
• Fine ac		d, red or yellow light sources djustable sensitivity				
	 Types Types 	s IDDGD: Applicable in Ex s IDNGD: Applicable in Ex	zones 1, 2, 21, 22 zones 2, 22	II 3G Ex nA IIB T4	Gc 5°C Dc IP67	
	Types IDR	IDR-1130P	IDR-1131P	IDR-1150P	IDR-1190P	
Technical data	Types IDN Types IDD	IDD-1130P-GD	IDD-1131P-GD	IDD-1150P-GD	IDD-1190P-GD	
Light source IDD-11xxP-GD: Type of Ex protection Gas, at 94/9/EC		870nm, infrared 870nm, infrared 630nm, red 590nm, yellow II 2G Ex d IIC T6 Gb				
IDD-11xxP-GD: Type of Ex protection Dust, at 94/9/EC		II 2D Ex tb IIIB T90°C Db IP67				
IDN-11xxP-GD: Type of Ex protection Gas, at 94/9/EC		II 3G Ex nA IIB T4 Gc				
IDN-11xxP-GD: Type of Ex protection Dust, at 94/9/EC IDN-11xxP-GD: Applicable in Ex zones		Zones 2, 22				
Working space, at white paper 30cmx20cm		appr.10 - 400mm appr.400 - 1000mm appr.10 - 400mm 7 5ms				
Time for TEACH-IN		180ms				
Supply voltage Current consumption	24VDC+-10% 60mA					
Max. power dissipation Output	1.7W PNP, max. 100mA, short circuit protected					
Input TEACH-IN	PNP compatible					
Housing	Yes M30, brass, nickel plated					
Enclosure rating, at EN 60529 Vibration and shock resistance	IDN and IDD: IP 67 / IDR: IP 65 Vibration: 30g over 20Hz to 2kHz. Shock: 100g for 3ms					
Working temperature range Tamb		-10°C < Tamb < +50°C				
Connection cable, length: IDR=3m, IDN	4+PE x 0,5mm ² , TPU, shielded, leads numbering marked, halogen free					
Socket, only IDR/IDN-11xxP(-GD)-S99 Accessories included, all types		M12, Lumberg, RSFM-5 2x Nuts M30 (or 1x clamp on request)				
Accessories, only IDN/IDD-11xxP-GD Accessories, only IDN-11xxP-GD-S99		1x Spare safety screw with packing ring for potentiometer sealing - Safety lock device, mount at the cable connection, for locking the connection,				
		- 1x Warning plate "V	- 1x Warning plate "WARNING - Explosion Hazard - Do Not Disconnect While Circuit			
		the cable connector				
Accessories. not included. IDR/IDN-11xxP(-GD)-S99		- 1x Dust-protection cap for the sensor socket - Cord set M12, types RKTS 5-298/xx or RKWTH 5-298/xx,Lumberg				
Options: IDR/IDN/IDD-1151P(-GD)		- Same specifications as IDx-1150P(-GD), reduced optical power				
		output during TEAC	output during TEACH-IN not activated.			
ID1132P/1152P/1191P(-GD)		- Same specifications as base devices, reduced optical power.				
		paper, special for light barrier applications with wide area fibre optics QW.				
IDR/1150P-S104		Response time: 1.25ms, reduced optical power, special for light barrier applications with				
IDR-1150P-S123		 ribre optics. Cable: 10cm, with socket M12, Binder 713/4-pins. Response time: 0.8ms, reduced optical power, special for light barrier applications with 				
ID1150P(-GD)-S182		fibre optics. Cable: - Same specifications	10cm, with socket M12 as IDx-1150P, increas	2, Binder 713/4-pins. ed optical power, speci	ial for light barrier	
		function, for glass detection. Response time: 200ms. With special optical tubes at the fibre optic probes M18 at the emitter and receiver probe. (Special Tubes M18/90/8).				
Fibre entire connection						
Function:	LED	TEACH		At measure	urement	
At Teach-In the sensor measure the quantity of		At activated	TEACH-IN:	Actual measured value	ue is greater or less	
diffuse reflected light and safe this reference value. During normal running the actual measured value	LED shows		= OFF	tolerance, determinate	ely by the potentiom-	
will be compared with the saved reference value. If more or less quantity of light received, the output will		At activated	TEACH-IN:	Actual measured	value equal to the	
be switched OFF. The tolerance of allowable differ- ence can be adjusted by the potentiometer.	LED shows	Valid reference and	data measured saved.	reference value, with	nin the determinately	
2	GREEN	Output IDR/IDN/IDD-1151P:	= ON Output not served	Output	= ON.	
Function of the output at measurement and LED display:		LED = GREEN		LED = RED		
Output function at standard wiring of th Cable: S104 / S123	e supply voltage: 3: Socket S99:					
2 +24VDC 1 brown 2 0V 2 white	1 / brown 3 / blue		ir=UN 5Ω		IP=0FF 5Ω	
Output 3 blue	4 / black		∿o Output		∿o Output	
PE yl-gr Housing	5 / grey		PN=OFF		PN=ON	
Output function at reversed wiring of th	e supply volt-					
+24VDC 2 white	3 / blue		P=OFF	L (K)	P=ON	
UV 1 brown Output 3 blue	1 / brown 4 / black		√-–o Output		√○ Output	
Input TEACH-IN 4 black	2 / white		'N=ON		'N=OFF	
yi-gi musing	J / giey		o 0V	Y Y	o 0)/	

