

Sensor Partners BV

- James Wattlaan 155151 DP DrunenThe Netherlands
- +31 (0)416 37 82 39
- sensorpartners.com

Sensor Partners BVBA

- Z.1 Researchpark 310B-1731, ZellikBelgium
- **>** +32 (0)2 464 96 90
- sensorpartners.com

RX series

Maxi with static output DC or with relay output AC/DC

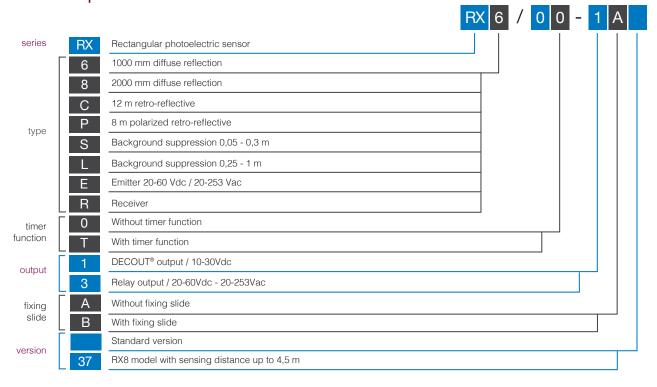


features

- Models: diffuse reflection, retro-reflective, polarized, through-beam and background suppression
- Series with high performances and wide possibilities of installation
- . High sensing distance and very small dimensions
- Relay output or multifunctional DECOUT®
- Timer function delay on, delay off, one shot; trimmer for sensitivity adjustment
- · Switch reducing the emission for fine detection in through-beam types
- LED alignment indicator with 360° visibility, 2 LED indicators (stable signal, output)
- M12 standard plug cable exit; axial and right angle brackets



code description



available models

models without fixing slide

	distance (m)	1030 Vdc	DECOUT®	2060 Vdc / 20253 Vac	relay	
function		no timer function	timer function	no timer function	timer function	
background	0,050,3	RXS/00-1A	RXS/0T-1A	RXS/00-3A	RXS/0T-3A	
suppression	0,251	RXL/00-1A	RXL/0T-1A	RXL/00-3A	RXL/0T-3A	
diffuse reflection	1	RX6/00-1A	RX6/0T-1A	RX6/00-3A	RX6/0T-3A	
	2	RX8/00-1A	RX8/0T-1A	RX8/00-3A	RX8/0T-3A	
	4,5	RX8/00-1A37	RX8/0T-1A37	RX8/00-3A37	RX8/0T-3A37	
retroreflective	12	RXC/00-1A	RXC/0T-1A	RXC/00-3A	RXC/0T-3A	
polarized	6	RXP/00-1A	RXP/0T-1A	RXP/00-3A	RXP/0T-3A	
emitter	-	-	-	RXE/00-3A	-	
emitter with check	-	-	-	-	-	
receiver	1632	-	-	RXR/00-3A	RXR/0T-3A	

available models

models with fixing slide

	distance (m)	1030 Vdc	DECOUT®	2060 Vdc / 20253 Vac	relay	
function		no timer function	timer function	no timer function	timer function	
background	0,050,3	RXS/00-1B	RXS/0T-1B	RXS/00-3B	RXS/0T-3B	
suppression	0,251	RXL/00-1B	RXL/0T-1B	RXL/00-3B	RXL/0T-3B	
	1	RX6/00-1B	RX6/0T-1B	RX6/00-3B	RX6/0T-3A	
diffuse reflection	2	RX8/00-1B	RX8/0T-1B	RX8/00-3B	RX8/0T-3B	
	4,5	RX8/00-1B37	RX8/0T-1B37	RX8/00-3B37	RX8/0T-3B37	
retroreflective	12	RXC/00-1B	RXC/0T-1B	RXC/00-3B	RXC/0T-3B	
polarized	6	RXP/00-1B	RXP/0T-1B	RXP/00-3B	RXP/0T-3B	
emitter	-	-	-	RXE/00-3B	-	
emitter with check	-	-	-	-	-	
receiver	1632	-	-	RXR/00-3B	RXR/0T-3B	

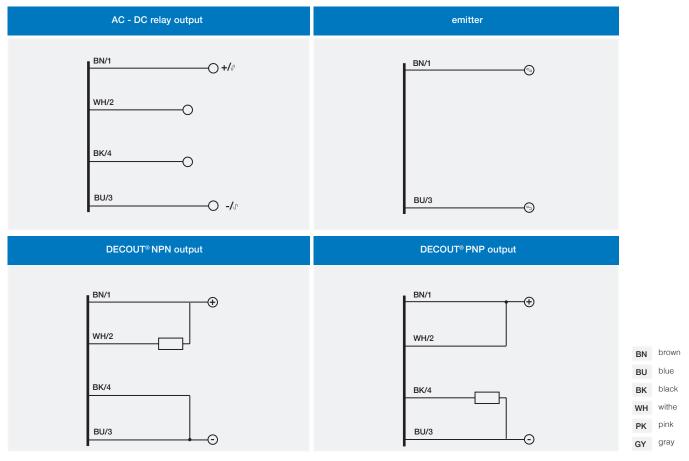
technical specification

direct diffuse, retro-reflective, backgroud suppression models and through-beam

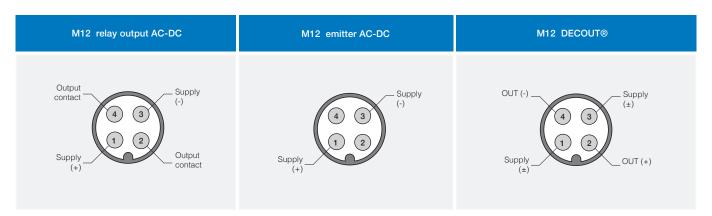
	static output - DC					relay output - AC/DC								
					aliffica a	offe eties	1100 00 11						thus web leasure	
	diffuse reflection		retro-reflective		diffuse reflection background suppr.		diffuse reflection		retro-reflective		diffuse reflection background suppr.		through-beam	
													without check	
	RX6/0*-1*	RX8/0*-1*	RXC/0*-1*	RXP/0*-1*	RXS/0*-1*	RXL/0*-1*	RX6/0*-3*	RX8/0*-3*	RXC/0*-3*	RXP/0*-3*	RXS/0*-3*	RXL/0*-3*	RXE/0*-3* + RXR/0*-3*	
	4		1	4	4		400	m) (m)	400		4			
nominal sensing distance Sn	1 m ⁽¹⁾	2 m ⁽¹⁾	12 m ⁽²⁾	6 m ⁽²⁾	0,05 0,3 m ⁽¹⁾	0,25 1 m ⁽¹⁾	1 m ⁽¹⁾	2 m ⁽¹⁾	12 m ⁽²⁾	6 m ⁽²⁾	0,05 0,3 m ⁽¹⁾	0,25 1 m ⁽¹⁾	16 - 32 m	
emission	infra	ared (880 i	nm)	red (660 nm)	Intrared (880 nm) Intrared (880 r			30 nm)						
tollerance	- 10+	+ 30 %	EG ≥ 2	2 at Sr	0+ 10 %		- 10+ 30 %		EG ≥ 2 at Sr		0+ 10 %		EG≥2 at Sr	
hysteresis				2	10% of t	he nomina	l sensing o	distance S	n				10 %	
repeatability		5 %												
operating voltage		1030 Vdc					20253 Vac / 50 -60 Hz							
ripple		≤ 10 % max					-						-	
no-load supply current	supply current 25		mA		40 mA		25 mA _{RMS}		30 mA _{RMS}		15 mA _{RMS} 30 mA _{RMS}			
load current			≤ 100 mA			-						3A-250 Vac 3A-30 Vdc (750 VA / 90 W)		
leakage current			≤ 10 µA											
voltage drop			1,2V	max			-							
output type	static DECOUT®						relay							
switching frequency		500 Hz						25 Hz						
power on delay	100 ms													
timing functions	from 0,1s to 10s, deley ON, deley OFF, one shot													
supply electrical protections		ро	larity rever	sal, transi			transient (AC), over voltages (DC)							
output protection		Short circuit (with hold)												
temperature range	- 25°C+ 70° (without freez			- 25°C + 60°C	25				- 25°C + 60°C			70°C		
temperature drift	10 % Sr													
protection degree	IP65 (EN60529) (3)													
external light interference	≥ 5.00 (incand lam	descent	≥ 10.00 (incand lam	escent	≥ 5.00	00 lux (inca	≥ 10.000 ndescent lamp) (incande lamp		lescent	≥ 5.000 lux (incandescent lamp)		10.000 lux (incandescent lamp)		
emitter LEDs												green (supply) red (dist. x 2)		
receiver LEDs	rear red (output state), superior red (alignment), green (stable signal)													
housing material	polycarbonate (glass fiber reinforced)													
lenses material	plastic													
weight (approximate)	145 g without fixing slide / 165 g with fixing slide													

⁽¹⁾ With 100 x 100 mm white matt paper EG=1.5 (2) With standard reflector Ø 80 mm (RL110 supplied seperately) (3) Protection guaranteed only with plug cable well mounted

electrical diagrams of the connections

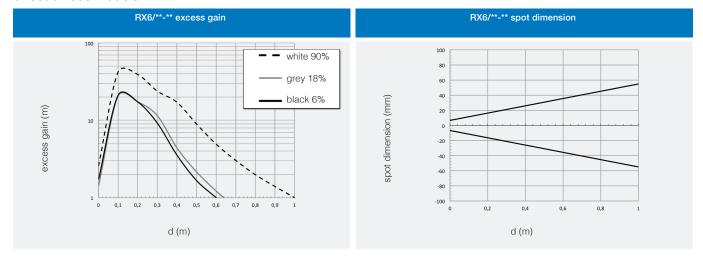


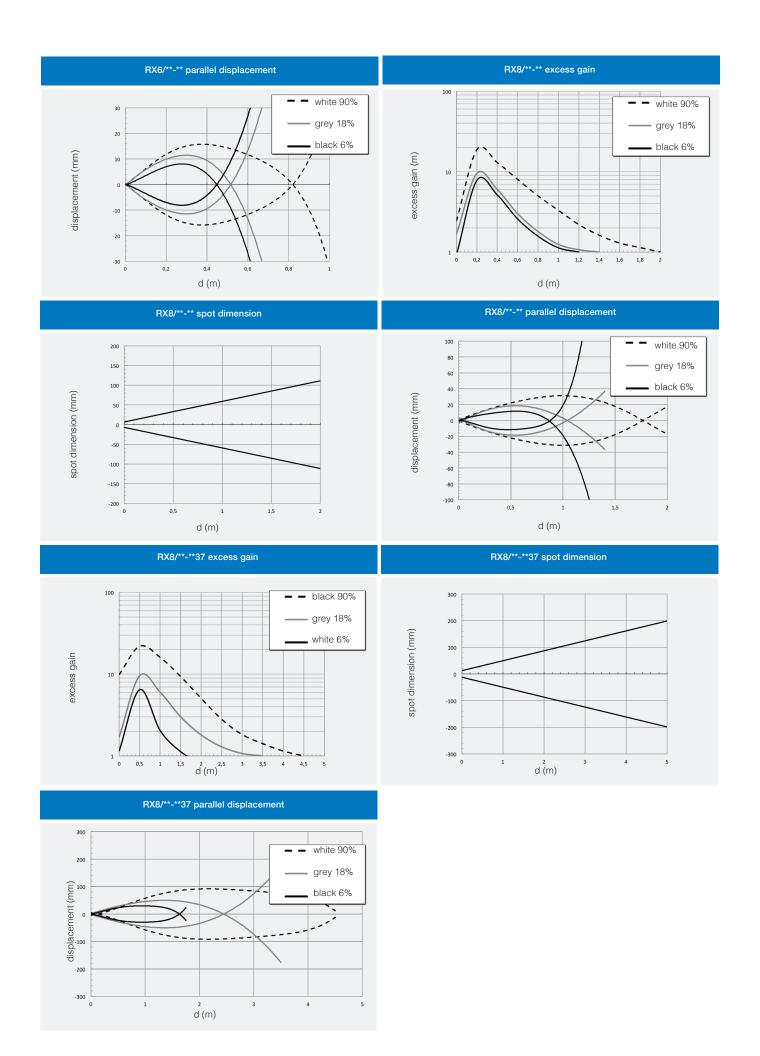
plug



response diagrams

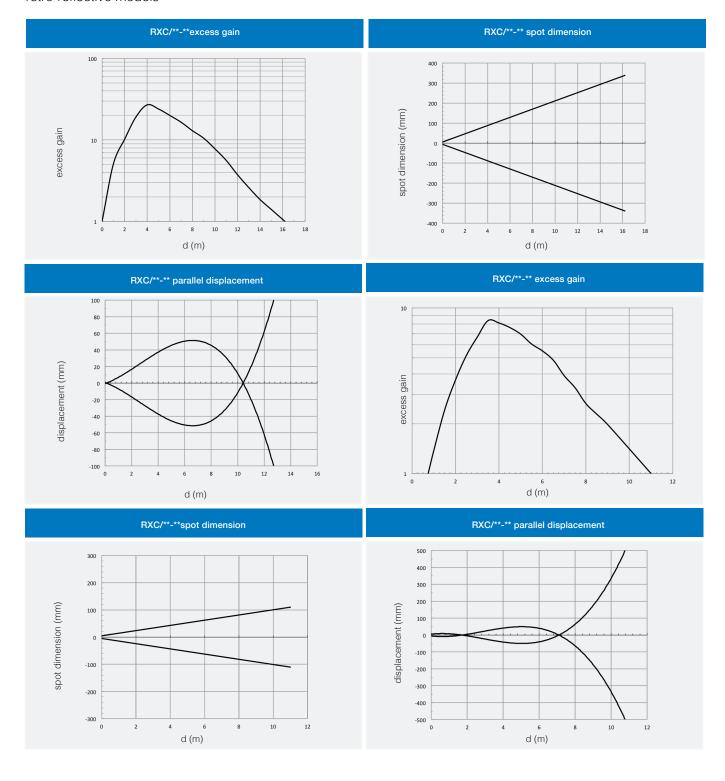
direct diffuse models





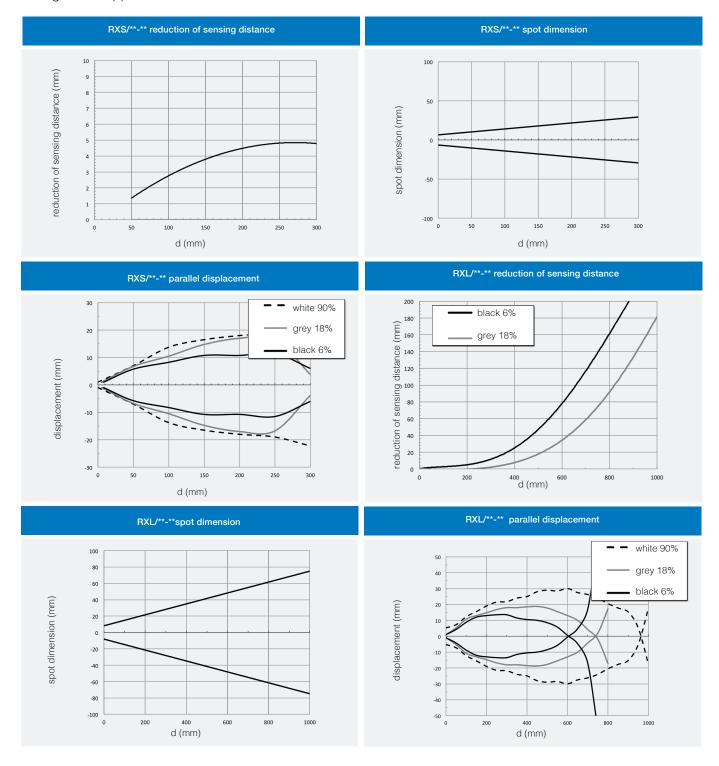
response diagrams

retro-reflective models



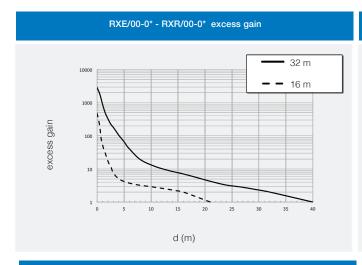
response diagrams

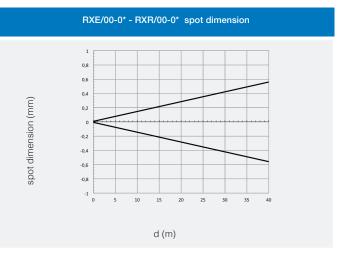
background suppression models

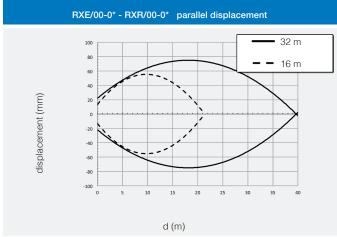


response diagrams

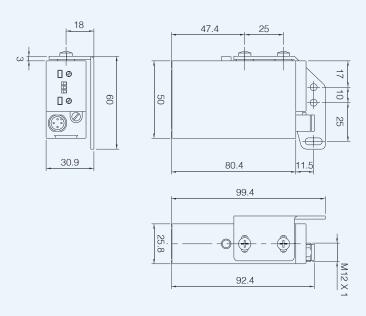
through-beam models







RX*/**-*A



RX*/**-*F

