MAXI SENSORS



DATALOGIC AUTOMATION

S2Z SERIES

The new S2Z Maxi series offers 4 models, with basic optic functions:

- through beam
- polarized retroreflex
- diffuse proximity
- background suppression Versions with continuous and freevoltage Vac. Adjustable timing versions are also available.

SPDT relay and bipolar transistor NPN/PNP open collector outputs are also offered.

Terminal block connection simplifies and speeds-up installation. The **heavy-duty** plastic housing guarantees excellent resistance in the most severe working conditions.



ENSOR









HIGHLIGHTS

- IP67 mechanical protection
- Timing versions
- Terminal block connection
- · Versions with continuous and multi-voltage power supply
- Anti-interference system
- · Shock-resistant housing ideal for severe working conditions

APPLICATIONS

Conveyors



Automatic warehouses

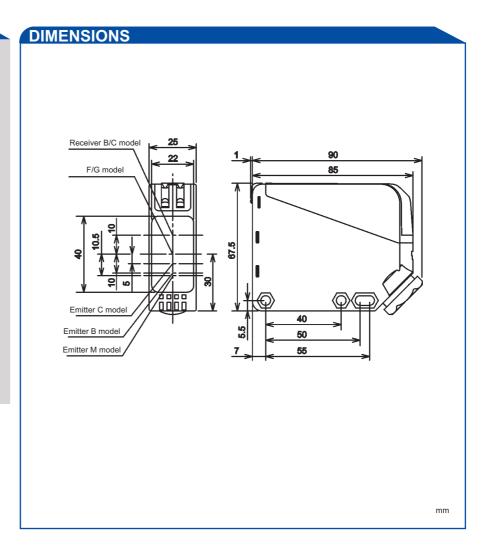


Automotive industry

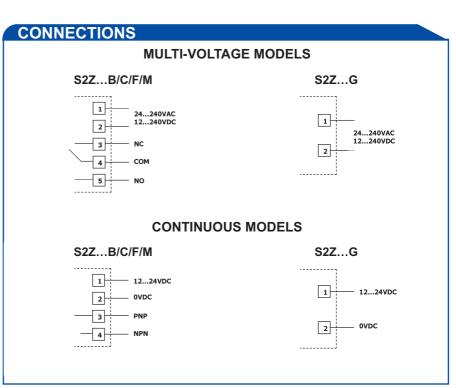


SETTING

The M model presents a multiturn adjustment screw for the adjustment of the background suppression distance through a mechanical variation of the optic triangulation angle. The other models have a mono-turn electronic trimmer that adjusts the sensitivity and the sensor operating distance. The operating distance increases, rotating the screws in a clockwise direction. The output activation and deactivation delay time can be adjusted by a trimmer that can vary from 0.1 to 5 sec. and the sensor functioning mode can be selected thanks to a ten-position selector.



A OUTPUT LED (yellow) B STABILITY LED (green) C Adjustment screw (only M model) D Sensitivity trimmer (B/C/F/G model) E Timing control F Operating mode selector





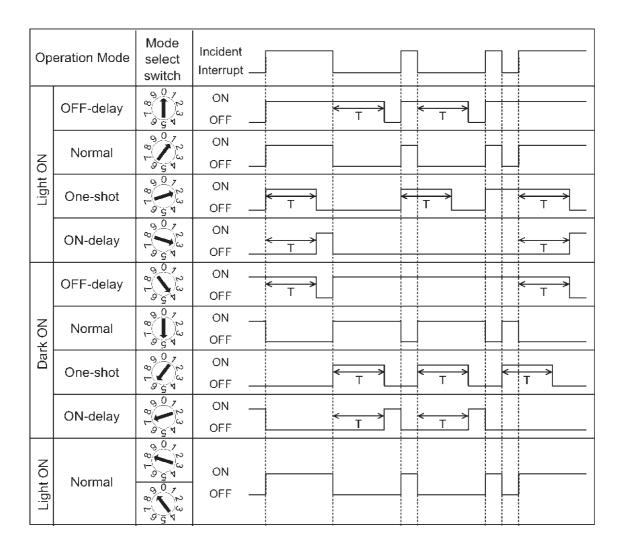
TECHNICAL DATA						
COMMON OPERIES ATIONS	007.510	C07 D	007.0	007 M		
COMMON SPECIFICATIONS	S2Z-F/G	S2Z-B	S2Z-C	S2Z-M		
Emission type:			LED			
Operating distances (typical values):	50m	0.27m	0.22m			
Setting:	Mono-turn sen	sitivity trimmer	Multi-turn distance			
			adjustment screw			
White/Black difference (90% / 4%)			< 35%			
Hysteresis on 90% white:	0.11	-DUT LED / "	≤ 15%			
Indicators:		PUT LED (yellow	OUTPUT LED			
	STABILITY LED (green) (yellow)					
Operating temperature:	-2550°C					
Storage temperature:	-4070°C					
Dielectric strength:	500Vac 1 min between electronics and housing					
Insulating resistance:	>20MΩ 500 Vdc between electronics and housing					
Ambient light rejection:	according to EN 60947-5-2					
Vibrations:	0.5mm width, 10 55Hz frequency, for each axis (EN60068-2-6)					
Shock resistance:	11ms (30G) 6 shocks for each axis (EN60068-2-27)					
Housing material:	PBT					
Lens material:	PC/PET	PMMA	PC/PET	PMMA/PC		
Mechanical protection:	IP67 (IEC / EN60529) / NEMA TYPE 1 (For UL / c-UL)					
Connections:	Terminal block (recommended cable diameter between 8 and 10 mm)					
MULTI VOLTA OF MODELO	007.5/0	007 D	007.0	007.14		
MULTI-VOLTAGE MODELS	S2Z-F/G S2Z-B S2Z-C S2Z-M 24240Vac / 12240Vdc					
Power supply:						
Ripple:	3VA max 3VA max					
Consumption (output current excluded):						
	(G model) 3VA max					
Outputo	(F model)					
Outputs: Output current:	SPDT electromagnetic relay: 250Vac, 30Vdc					
Response time:	3A (resistance load)					
Switching frequency:	20ms max 25Hz					
Weight:	115g (G mod)	23	130g			
Weight.	130g (F mod)		1309			
	1309 (1 11100)					
CONTINUOUS MODELS	S2Z-F/G	S2Z-B	S2Z-C	S2Z-M		
Power supply:	022 170			OZZ III		
Ripple:	1224Vdc 10% max					
Consumption (output current excluded):	20mA max	10701	30mA max	 K.		
Consumption (Cutput Cut) oxoluucu).	(G model)		0011111111111			
	25mA max					
	(F model)					
Outputs:	(5451)	PNP and NPN	l open collector			
Output current:	PNP and NPN open collector 100 mA (resistance load)					
Output saturation voltage:	2.4V max					
Response time:	1ms max					
Switching frequency:		500Hz				
Weight:	105g (G mod)	5g (G mod) 110g				
	110g (F mod)					
	1109 (1 11100)	1109 (1 11104)				



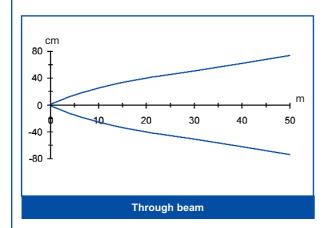
TIMING FUNCTION DIAGRAM

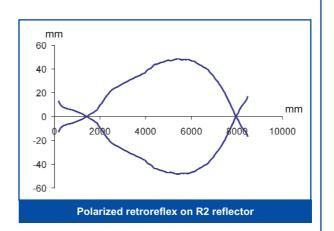
Four selectable **timing functions**: one shot, ON delay, OFF delay and normal mode. The functions can be **adjusted**, using a **trimmer**, from 0.1 to 5 seconds.

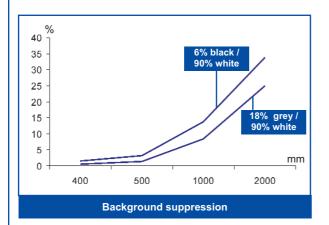
The timing functions can be particularly useful in applications where the output signal pulse has to be modified.

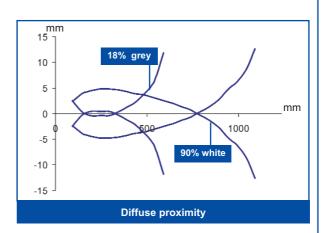


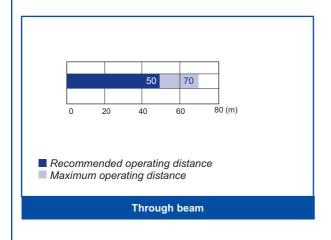
DETECTION DIAGRAMS

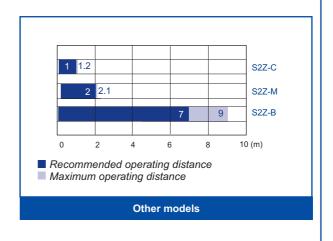












MODEL SELECTION AND ORDER INFORMATION						
MODEL	POWER SUPPLY	DELAY	OUTPUT	N° ORDER		
S2Z-PA-1-B01-RX	Vac/Vdc		Relay	95B051000		
S2Z-PA-1-B06-RX	Vac/Vdc	•	Relay	95B051010		
S2Z-PA-5-B01-OX	Vdc		PNP/NPN transistor	95B051020		
S2Z-PA-5-B06-OX	Vdc	•	PNP/NPN transistor	95B051030		
S2Z-PA-1-M01-RX	Vac/Vdc		Relay	95B051040		
S2Z-PA-1-M06-RX	Vac/Vdc	•	Relay	95B051050		
S2Z-PA-5-M01-OX	Vdc		PNP/NPN transistor	95B051060		
S2Z-PA-5-M06-OX	Vdc	•	PNP/NPN transistor	95B051070		
S2Z-PA-1-C01-RX	Vac/Vdc		Relay	95B051080		
S2Z-PA-1-C06-RX	Vac/Vdc	•	Relay	95B051090		
S2Z-PA-5-C01-OX	Vdc		PNP/NPN transistor	95B051100		
S2Z-PA-5-C06-OX	Vdc	•	PNP/NPN transistor	95B051110		
S2Z-PA-1-FG01-RX	Vac/Vdc		Relay	95B051130		
S2Z-PA-1-FG06-R	Vac/Vdc	•	Relay	95B051140		
S2Z-PA-5-FG01-OX	Vdc		PNP/NPN transistor	95B051160		
S2Z-PA-5-FG06-OX	Vdc	•	PNP/NPN transistor	95B051170		











The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.