

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.





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

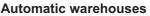
APPLICATIONS

Conveyors



Automotive industry





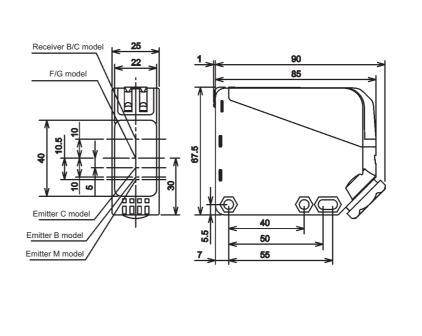


www.automation.datalogic.com AUDIN - 8, avenue de la malle - 51370 Saint Brice Courcelles - Tel : 03.26.04.20.21 - Fax : 03.26.04.28.20 - Web : http: www.audin.fr - Email : info@audin.fr

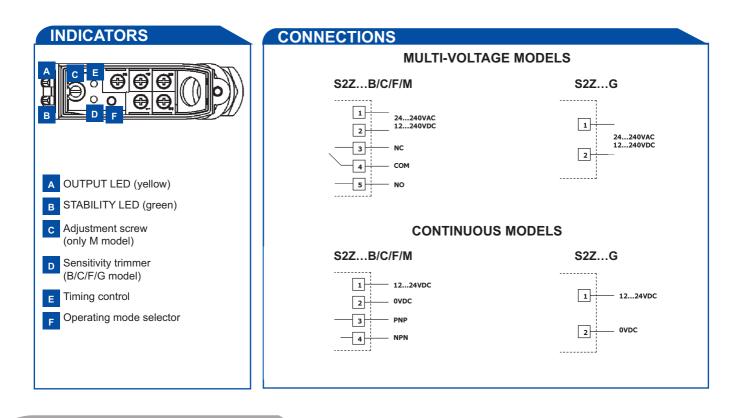
SETTING

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.

DIMENSIONS



mm



www.automation.datalogic.com

DATALOGIC AUTOMATION

TECHNICAL DATA

TECHNICAL DATA					
COMMON SPECIFICATIONS	S2Z-F/G	S2Z-B	S2Z-C	S2Z-M	
Emission type:	IR LED	red LED	IR	LED	
Operating distances (typical values):	50m	0.27m	1m	0.22m	
Setting:	Mono-turn sen	sitivity trimmer		Multi-turn distance	
		-		adjustment screw	
White/Black difference (90% / 4%)				< 35%	
Hysteresis on 90% white:			≤ 20%	≤ 15%	
Indicators:	OUT	PUT LED (yellow	v)	OUTPUT LED	
	STA	(yellow)			
Operating temperature:		-	2550°C		
Storage temperature:		-	4070°C		
Dielectric strength:	500	Vac 1 min betwee	en electronics ar	nd housing	
Insulating resistance:	>20N	IΩ 500 Vdc betwe	een electronics a	and housing	
Ambient light rejection:		according to E	EN 60947-5-2		
Vibrations:				kis (EN60068-2-6)	
Shock resistance:	11m	s (30G) 6 shocks	for each axis (E	N60068-2-27)	
Housing material:	 	PE			
Lens material:	PC/PET	PMMA	PC/PET	PMMA/PC	
Mechanical protection:		(IEC / EN60529			
Connections:	Termin	al block (recomm	ended cable dia	meter between 8 and 10 mm)	
		007.5		007 W	
MULTI-VOLTAGE MODELS	S2Z-F/G	S2Z-B	S2Z-C	S2Z-M	
Power supply:		24240Vac/			
Ripple:	0.4	10%			
Consumption (output current excluded):					
	(G model)				
	3VA max				
Outputer	(F model)				
Outputs:	SPDT electromagnetic relay: 250Vac, 30Vdc 3A (resistance load)				
Output current: Response time:			•		
Switching frequency:	20ms max 25Hz				
Weight:	115g (G mod)				
weight.	130g (F mod)		1309		
	130g (F 1110d)				
CONTINUOUS MODELS	S2Z-F/G	S2Z-B	S2Z-C	S2Z-M	
Power supply:		122	4Vdc	-	
Ripple:	10% max				
Consumption (output current excluded):	20mA max 30mA max.				
	(G model)				
	25mA max				
	(F model)				
Outputs:	PNP and NPN open collector				
Output current:	100 mA (resistance load)				
	2.4V max				
Output saturation voltage:	1ms max				
Output saturation voltage: Response time:		1ms m	ax		
		1ms m 500H:			
Response time:	105g (G mod)	500H:			



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.

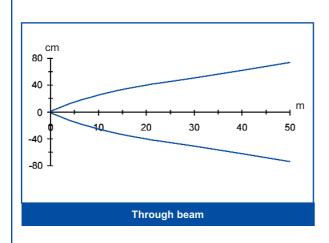
The timing functions can be particularly useful in applications where the output signal pulse has to be modified.

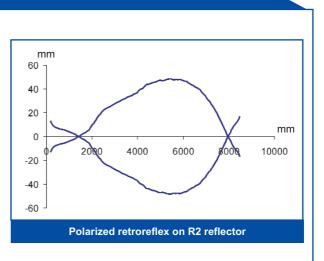
Ор	eration Mode	Mode select switch	Incident
Light ON	OFF-delay		ON OFF
	Normal		ON
	One-shot		OR T T T
	ON-delay		ON OFF T
Dark ON	OFF-delay		OR
	Normal	0	ON
	One-shot		OR CFF
	ON-delay		OFF
Light ON	Normal		ON OFF

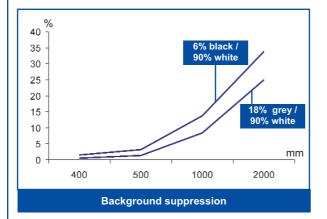
www.automation.datalogic.com

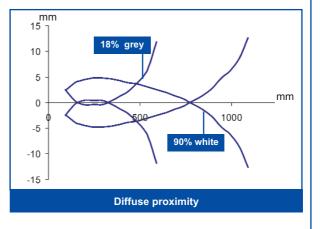
DATALOGIC AUTOMATION

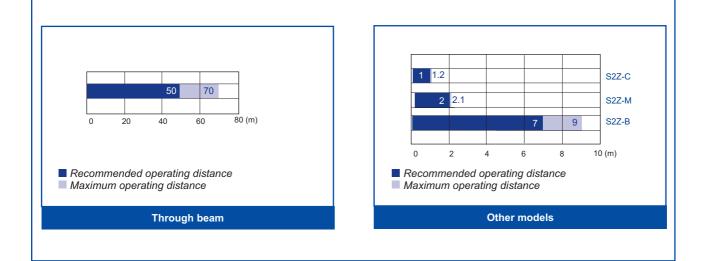
DETECTION DIAGRAMS











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.

www.automation.datalogic.com www.datasensor.com Printed in Italy in May 2009, Rev. 00

AUDIN - 8, avenue de la malle - 51370 Saint Brice Courcelles - Tel : 03.26.04.20.21 - Fax : 03.26.04.28.20 - Web : http://www.audin.fr - Email : info@audin.fr