

SG-SRT SERIES INSTRUCTION MANUAL



SG-SRT-1



SG-SRT-2

OVERVIEW

The **SG-SRT** connection boxes are used to facilitate the connection and the use of barriers SG Series Body MUTING, BIG, BIG REFLECTOR and COMPACT.

The **SG-SRT-1** box has externally:

- A key switch to activate the **OVERRIDE** function.
- A **TEST / START** button lit to implement the functions of Test, Restart, Reset.

The **SG-SRT-2** box has externally:

- A key switch to activate the **OVERRIDE** function.
- A **TEST / START** button lit to implement the functions of Test, Restart, Reset.
- An integrated lamp for signaling muting function activation

The boxes inside consist of:

- Removable terminal strips for
 - connection to receiver unit (M4)
 - connection to transmitter unit (M2)
 - connection to power and auxiliary functions (M3)
 - connection to relay outputs (M1)
 - connection to external control / display (M5 - pre-wired).
- Two safety relays RLY1 and RLY2 each with two NO contacts available.



CAUTION

Use both relays to ensure the safety function. Despite the availability, the use of the same relay contacts can decrease the degree of system safety.

👍 K111 K112 + K211 K212

👎 ~~K111 K112 + K211 K212~~

FUNCTIONING

The **SG-SRT** connection boxes allow you to directly manage, without further action, the following functions according to the typical operation of the connected Safety Barrier model:

FUNCTION	THROUGH
TEST	TEST/START Push button
RESTART	TEST/START Push button
RESET	TEST/START Push button
EDM internal	Internal Selector
EDM external actuators	Internal Selector
OVERRIDE	Key Selector
MUTING STATE	Integrated Lamp (SG-SRT-2 only)

Please refer to the Safety Barrier Manuals for all information regarding connections, operations and options for the functions listed above.

OUTPUT RELAY BEHAVIOUR

The boxes use 2 safety guided relay contacts. These relays are specified by the manufacturer for higher voltages and currents as indicated by the technical data.

However, to ensure correct isolation and prevent premature damage for age drift, you need to protect each output line using a delayed 6A fuse and verify that the load characteristics comply with the instructions below:

Max. switchable voltage: 250 Vac

Max. switchable current: 2 A

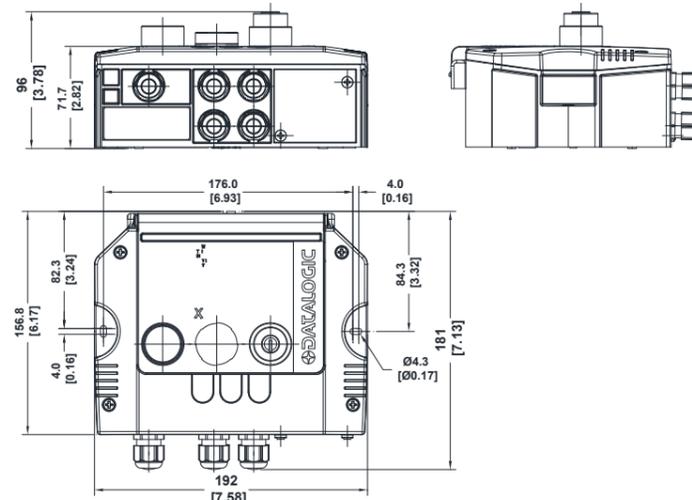
CONFIGURATION SELECTION

J	FUNCTION	POS	SELECTION	DEFAULT
J1	RESTART	1-2	AUTOMATIC RESTART (*)	X
		2-3	MANUAL RESTART	
J2	LAMP	1-2	LAMP ON BOX (**)	X
		2-3	EXTERNAL LAMP	
J3	OSSD2	1-2	RLY2 RELAY ENABLED	X
		2-3	OSSD2 ROUTED TO OUT	
J4	OSSD1	1-2	RLY1 RELAY ENABLED	X
		2-3	OSSD1 ROUTED TO OUT	
J5	EDM	1-2	EDM INTERNAL	X
		2-3	EDM EXTERNAL	
(*) FORCED CONFIGURATION FOR SGBODY COMPACT (the selection of the Restart should be determined by the appropriate light curtain DIP switches)				
(**) ONLY FOR SG-SRT-2 MODELS				

INSTALLATION

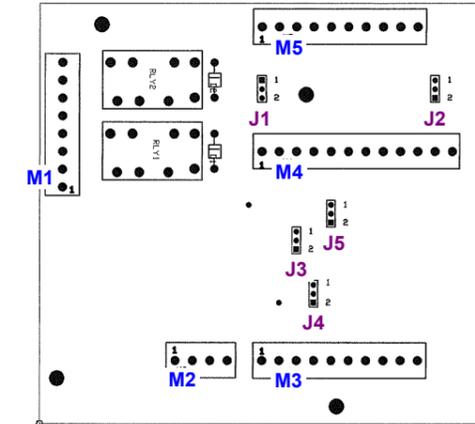
MOUNTING

Boxes can be mounted to the wall using appropriate screws and dowels (not supplied).



ELECTRICAL CONNECTIONS

To access internal jumpers and connectors, loosen the 4 cover screws, open the cover and proceed with the desired cabling/setting.



CONN.	Pin	Description	
M1	1	K111	PIN 1 RLY1 - 1°CONTACT
	2	K112	PIN 2 RLY1 - 1°CONTACT
	3	K121	PIN 1 RLY1 - 2°CONTACT
	4	K122	PIN 2 RLY1 - 2°CONTACT
	5	K211	PIN 1 RLY2 - 1°CONTACT
	6	K212	PIN 2 RLY2 - 1°CONTACT
	7	K221	PIN 1 RLY2 - 2°CONTACT
	8	K222	PIN 2 RLY2 - 2°CONTACT
M2	1	VCC	TX Unit
	2	GND	TX Unit
	3	FE	TX Unit - not present on SG BODY COMPACT-
	4	TEST	TX Unit - not present on SG BODY COMPACT-
M3	1	VCC	24 VCC INPUT
	2	GND	GND INPUT
	3	OSSD2	OUT 2
	4	OSSD1	OUT 1
	5	EDM	OUT EDM
	6	MUTING E	MUTING ENABLE INPUT
	7	LAMP OUT	EXTERNAL LAMP OUT
	8	OVR STAT	OVERRIDE STATUS OUT
	9	FE	FUNCTIONAL EARTH GROUND
	10	TEST	TEST
M4	1	VCC	RX Unit
	2	GND	RX Unit
	3	RESTART	RX Unit
	4	OVR1	RX Unit
	5	OSSD2	RX Unit
	6	EDM	RX Unit
	7	MUTING E	RX Unit - not present on SG BODY COMPACT-
	8	OSSD1	RX Unit
	9	OVR2	RX Unit
	10	LAMP	RX Unit - not present on SG BODY COMPACT-
	11	OVR STAT	RX Unit - not present on SG BODY COMPACT-
	12	FE	RX Unit - not present on SG BODY COMPACT-
M5 pre-wired	1	M51	TO RESTART PUSHBUTTON
	2	M52	TO RESTART PUSHBUTTON
	3	M53	TO GND LAMP OF RESTART PUSH BUTTON
	4	M54	TO LAMP OF RESTART PUSH BUTTON
	5	M55	TO OVERRIDE OVR1 PUSH BUTTON
	6	M56	TO 24 VCC OVERRIDE OVR1 PUSH BUTTON
	7	M57	TO OVERRIDE OVR2 PUSH BUTTON
	8	M58	TO GND OVERRIDE OVR2 PUSH BUTTON
	9	M59	TO TEST LAMP
	10	M510	TO VCC OF TEST LAMP

Datalogic S.r.l.

Via S. Vitalino 13 - 40012 Calderara di Reno - Italy
Tel: +39 051 3147011 - Fax: +39 051 3147205 - www.datalogic.com

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