# SAFETY ACCESSORIES GHT CURTAINS CATALOGIC

DATALOGIC AUTOMATION

### SG-SRT

The new **SG-SRT** evolves and improves SE-SRT connection box. Based on Datalogic CBX800 GATEWAY housing SG-SRT is developed to fit the advanced functionalities of new SG BODY BIG, SG BODY REFLECTOR and SG BODY COMPACT safety light curtains guaranteeing easy installation, connection, configuration and use. SG-SRT is then provided in 2 different models :

 SG-SRT-1 version represents the natural replacement of SE-SRT.
SG-SRT-2 is especially designed to work together with new SG BODY BIG and SG BODY REFLECTOR series exploiting their full functionalities.





## HIGHLIGHTS

- CBX800 housing
- TOTAL COMPATIBILITY WITH SE-SRT
- Two models: SG-SRT-1 and SG-SRT-2
- Fairlead for passage of cables towards the machine
- Integrated FORCE GUIDED SAFETY RELAYS: 2 NO + 1 NC
- Configuration performed setting the various jumpers and connectors on the same PCB

#### APPLICATIONS

Extreme reliability and simplicity make the SG-SRT the ideal solution for the following applications:

Automatic machines



Automatic assembly lines

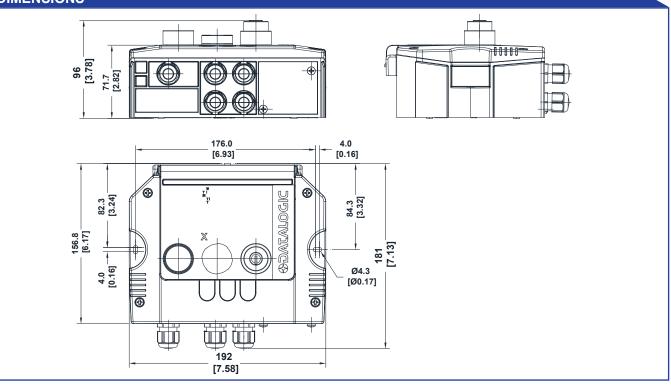




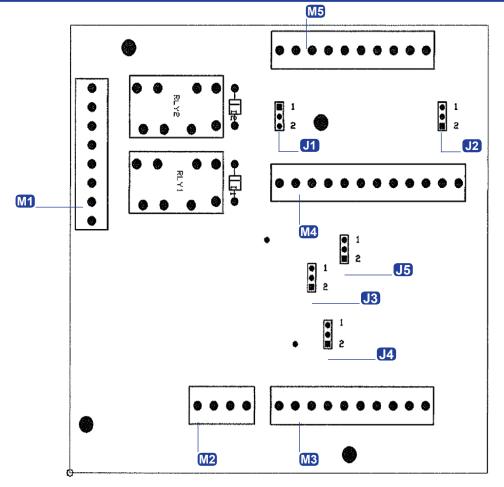
Palletizers and depalletizers



## DIMENSIONS



# **ELECTRICAL CONNECTIONS**





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

CONN.	PIN	DESCRIPTION	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-		
VI3	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	OVE STAT	RX Unit - not present on SG BODY COMPACT-		
	12	FE	RX Unit - not present on SG BODY COMPACT-		
M5	1	M51	TO RESTART PUSHBUTTON		
PRE-WIRED	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		
	-				

## 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

#### CONNECTION BOX AND SAFETY LIGHT CURTAIN CORRESPONDENCE

SAFETY LIGH CURTAIN MODEL	CONNECTION BOX MODEL
SG2 BODY COMPACT BASE	-
SG2 BODY COMPACT MUTING	SG-SRT-1
SG4 BODY COMPACT BASE	-
SG4 BODY COMPACT MUTING	SG-SRT-1
SG2 BODY BIG BASE	-
SG2 BODY BIG MUTING	SG-SRT-1 / SG-SRT-2
SG4 BODY BIG BASE	-
SG4 BODY BIG MUTING	SG-SRT-1 / SG-SRT-2
SG4 BODY REFLECTOR BASE	-
SG4 BODY REFLECTOR MUTING	SG-SRT-1 / SG-SRT-2

MODEL SELECTION AND ORDER INFORMATION					
MODEL	DESCRIPTION	ORDER N°			
SG-SRT-1	SG-SRT-1 MUTING CONNECTION BOX	95ASE2050			
SG-SRT-2	SG-SRT-2 MUTING CONNECTION BOX LAMP	95ASE2060			



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.