



# COMPACT-EX[GD] SERIES





## COMPACT-EX[GD] Series

COMPACT-EX[GD] is a range of local control stations for applications in Zone 1/2 (Gas) and 21/22 (Dust).

The enclosure, made of thermoplastic material with glass fiber, is resistant to impact even at low temperatures and its design eases the wiring operations of the components fixed to the internal DIN rail.

Based on a concept of absolute modularity, the COMPACT-EX[GD] control stations are available in two sizes of enclosures designed to house up to a maximum of 3 Ex eb operators, but by means of a joint it is possible to couple two casings together, obtaining configurations up to 4 operators.

In addition to the pre-configured versions, SCAME offers a dedicated design and production service based on specific customer needs.

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## Technical information

### Main characteristics



**01** Enclosure in thermoplastic material reinforced with glass fiber

**02** Base with lowered side walls for easy access to wiring component terminals

**03** Captive stainless steel closing screws

**04** Blank sides with drilling point marks

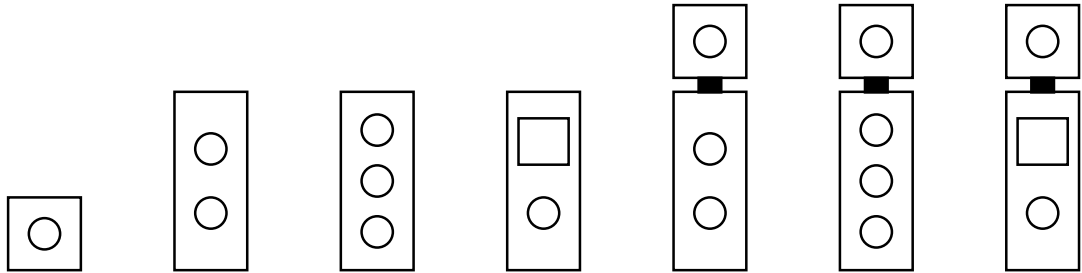
**05** Open external and slotted fixing points

**06** Ex polyamide cable gland supplied

## PERSONALIZED SOLUTIONS

In addition to the preconfigured versions, the COMPACT-EX [GD] Series local control stations can be customized according to the specific needs of the customer. The empty enclosures can in fact be equipped with a wide range of actuators and components with separate ATEX-IECEX certification, up to 4 operators configurations by coupling two enclosures using the appropriate coupling kit. The customization also includes the possibility of completing the stations with earth stud and metal cable glands for armored and non-armored cables. Any customized configuration must be designed and built exclusively by Scame Parre as manufacturer, under penalty of forfeiture of the certificate of conformity to the ATEX Directive.

## TYPE OF ENCLOSURES



Dimensions	95X95X80mm	180X95X80mm	180X95X80mm	180X95X80mm	275x95x80mm	275x95x80mm	275X95X80mm
Size	1	3	3	3	4	4	4
Number of bases	1	1	1	1	2	2	2

## INSTALLABLE COMPONENTS

Type	Characteristics	Notes
Push button		Red, green, yellow, blue, white, black, key, safety-latch
Double push button		Red, green, black, safety-latch
Emergency stop	2P-4P NO-NC	Red, push-pulling, twist to release, key
Rotary handle	2P NO-NC	-
Mushroom		Black, red, push-pulling, twist to release, key, safety-latch
Toggle switch		Red, black
Stopping plug	Blind plug	For unused holes
Pilot light	10÷400Vac - 50÷277Vcc	Red, green, yellow, blue, white
Potentiometer	100Ω÷2MΩ	Clockwise or not clockwise
Ammeter	0÷600A-1200A-3000A	Direct measuring, current transformer 1/5A, overload scale x2/x5
Milliammeter	0-20/40mA - 4-20/40mA	mA-Dc
Voltmeter	0-500V	Vac
Push button with pilot light	1NC / 1NO 10/277Vac/Vcc	Red, green, yellow, blue, white

### Combination examples

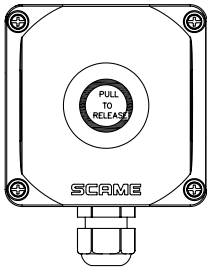


Local control stations

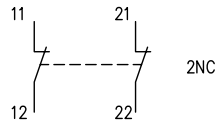
Local control and measurement stations

# COMPACT-EX[GD] SERIES

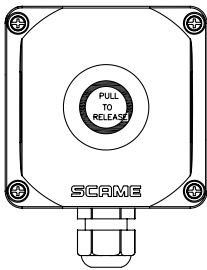
## LOCAL CONTROL STATIONS - ONE OPERATOR



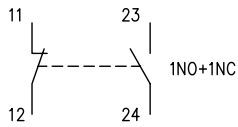
**EMERGENCY push button**



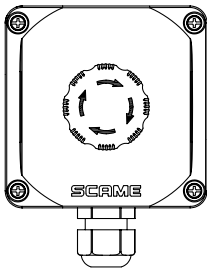
Description	Size	Cable entries	Function	Code	
EMERGENCY PUSH BUTTON PULL TO RELEASE	1	1xM20	2NC	593.111-1ES	1



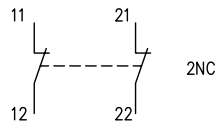
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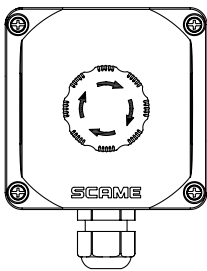
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EMERGENCY PUSH BUTTON PULL TO RELEASE	1	1xM20	1NO+1NC	593.111-1ES1	1



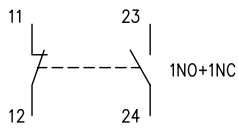
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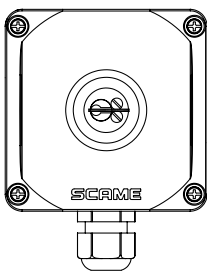
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EMERGENCY PUSH BUTTON TWIST TO RELEASE	1	1xM20	2NC	593.111-1ER	1



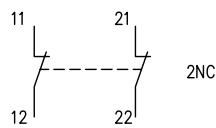
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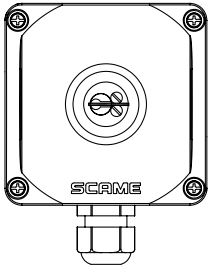
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EMERGENCY PUSH BUTTON TWIST TO RELEASE	1	1xM20	1NO+1NC	593.111-1ER1	1



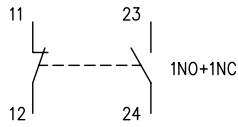
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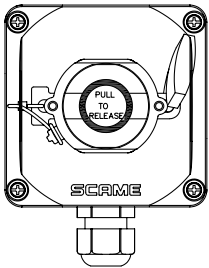
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EMERGENCY PUSH BUTTON KEY TO RELEASE	1	1xM20	2NC	593.111-1EK	1



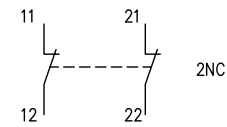
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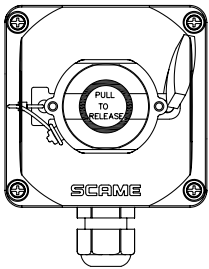
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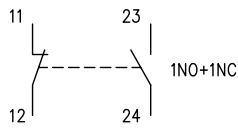
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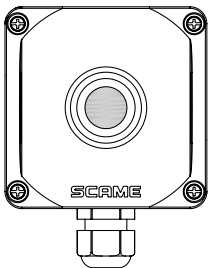
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EMERGENCY PUSH BUTTON PULL TO RELEASE WITH SAFETY-LATCH	1	1xM20	2NC	<b>593.111-1ESL</b>	1



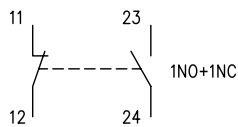
**EMERGENCY push button**



Description	Size	Cable entries	Function	Code	
EMERGENCY BUTTON PULL TO RELEASE WITH SAFETY-LATCH	1	1xM20	1NO+1NC	<b>593.111-1ESL1</b>	1

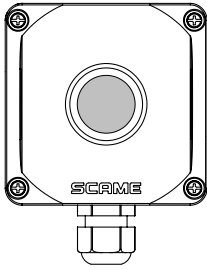


**Push button**

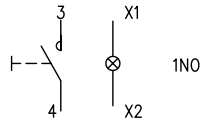


Description	Size	Cable entries	Function	Code	
GREEN PUSH BUTTON	1	1xM20	1NO+1NC	<b>593.111-1PBG</b>	1
RED PUSH BUTTON	1	1xM20	1NO+1NC	<b>593.111-1PBR</b>	1
WHITE PUSH BUTTON	1	1xM20	1NO+1NC	<b>593.111-1PBW</b>	1
YELLOW PUSH BUTTON	1	1xM20	1NO+1NC	<b>593.111-1PBY</b>	1
BLACK PUSH BUTTON	1	1xM20	1NO+1NC	<b>593.111-1PBK</b>	1

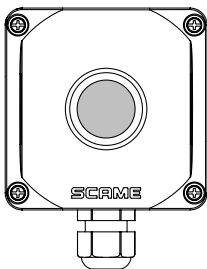
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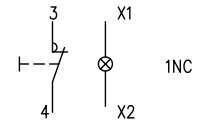
Lighted push button



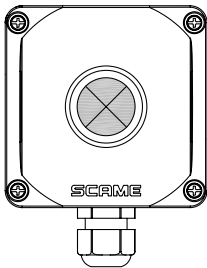
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GREEN LIGHT PUSH BUTTON	1	1xM20	1NO	593.111-1PLG0	1
RED LIGHT PUSH BUTTON	1	1xM20	1NO	593.111-1PLR0	1
WHITE LIGHT PUSH BUTTON	1	1xM20	1NO	593.111-1PLW0	1
YELLOW LIGHT PUSH BUTTON	1	1xM20	1NO	593.111-1PLY0	1
BLUE LIGHT PUSH BUTTON	1	1xM20	1NO	593.111-1PLB0	1



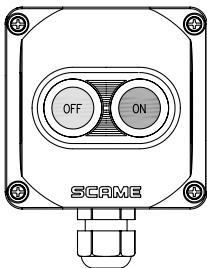
Lighted push button



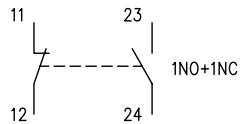
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GREEN LIGHT PUSH BUTTON	1	1xM20	1NC	593.111-1PLGC	1
RED LIGHT PUSH BUTTON	1	1xM20	1NC	593.111-1PLRC	1
WHITE LIGHT PUSH BUTTON	1	1xM20	1NC	593.111-1PLWC	1
YELLOW LIGHT PUSH BUTTON	1	1xM20	1NC	593.111-1PLYC	1
BLUE LIGHT PUSH BUTTON	1	1xM20	1NC	593.111-1PLBC	1



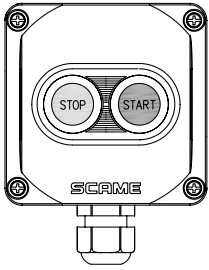
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GREEN LED LIGHT	1	1xM20		593.111-1LDG	1
RED LED LIGHT	1	1xM20		593.111-1LDR	1
WHITE LED LIGHT	1	1xM20		593.111-1LDW	1
YELLOW LED LIGHT	1	1xM20		593.111-1LDY	1
BLUE LED LIGHT	1	1xM20		593.111-1LDB	1



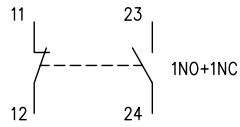
ON/OFF double push button



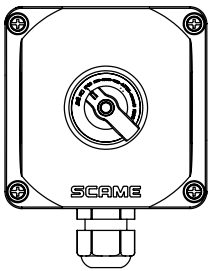
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ON/OFF DOUBLE PUSH BUTTON	1	1xM20	1NO+1NC	593.111-10F	1



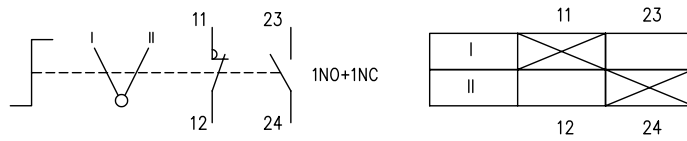
**START/STOP double push button**



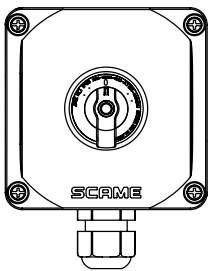
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START/STOP DOUBLE PUSH BUTTON	1	1xM20	1NO+1NC	593.111-1SS	1



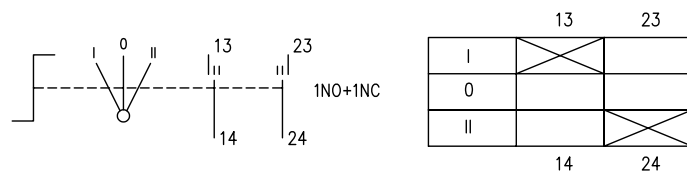
**Selector switch I-II**



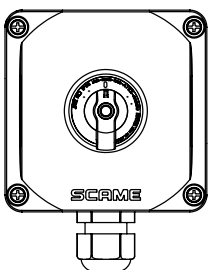
Description	Size	Cable entries	Function	Code	
SELECTOR SWITCH I-II	1	1xM20	1NO+1NC	593.111-1SE2	1



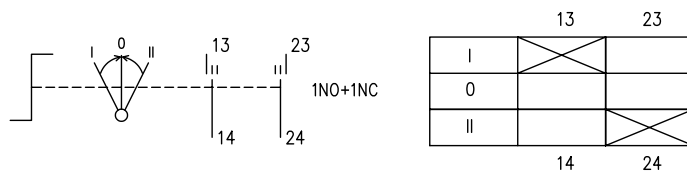
**Selector switch I-0-II**



Description	Size	Cable entries	Function	Code	
SELECTOR SWITCH I-0-II	1	1xM20	2NO label 0 1NO label I - 1NC label II fixed position	593.111-1SE3	1

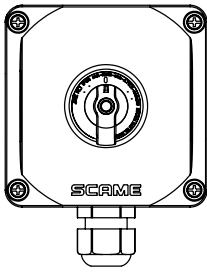


**Selector switch I-0-II**

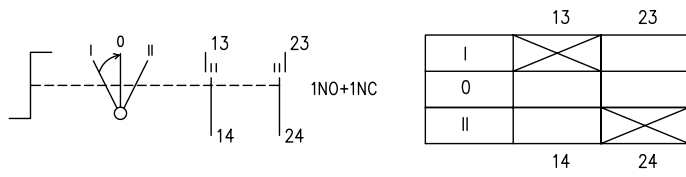


Description	Size	Cable entries	Function	Code	
SELECTOR SWITCH I-0-II	1	1xM20	2NO label 0 1NO label I - 1NC label II spring return 0	593.111-1SE4	1

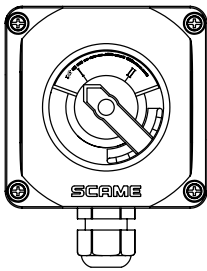
# COMPACT-EX[GD] SERIES



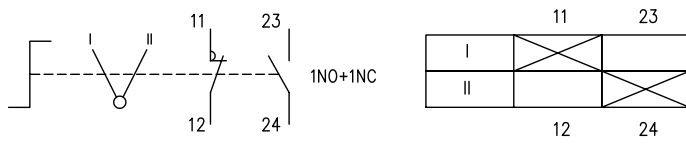
Selector switch I-0-II



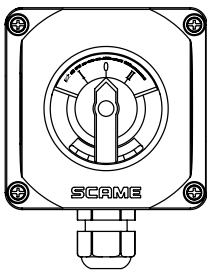
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SELECTOR SWITCH I-0-II	1	1xM20	2NO label 0 1NO label I - 1NC label II spring return I-0	593.111-1SE5	1



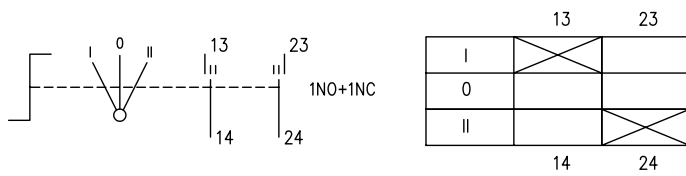
Selector switch I-II



Description	Size	Cable entries	Function	Code	
SELECTOR SWITCH I-II LOCKABLE HANDLE	1	1xM20	1NO+1NC	593.111-1SE2L	1

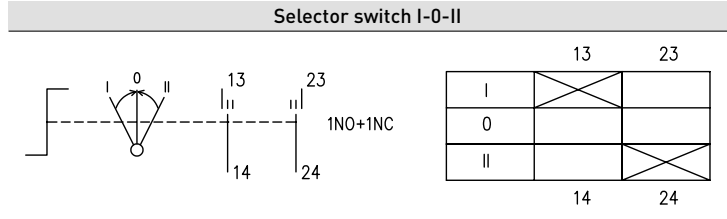
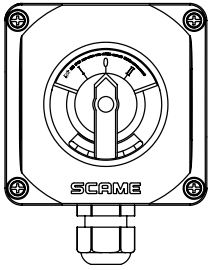


Selector switch I-0-II

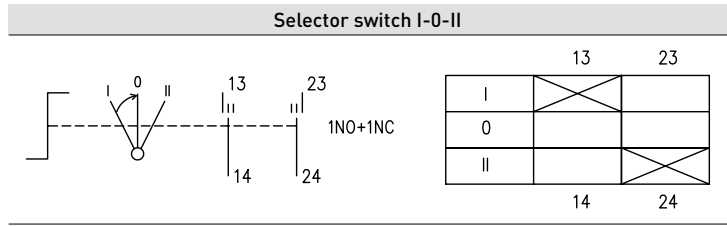
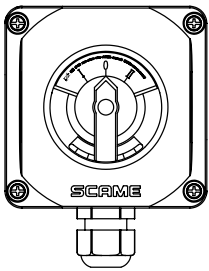


Description	Size	Cable entries	Function	Code	
SELECTOR SWITCH I-0-II LOCKABLE HANDLE	1	1xM20	2NO label 0 1NO label I - 1NC label II fixed position	593.111-1SE3L	1





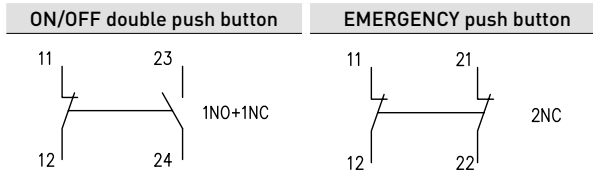
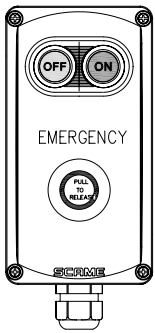
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SELECTOR SWITCH I-0-II LOCKABLE HANDLE	1	1xM20	2NO label 0 1NO label I - 1NC label II spring return 0	<b>593.111-1SE4L</b>	1



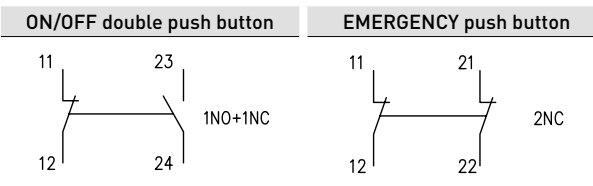
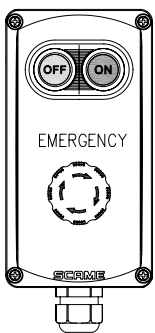
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SELECTOR SWITCH I-0-II LOCKABLE HANDLE	1	1xM20	2NO label 0 1NO label I - 1NC label II spring return I-0	<b>593.111-1SE5L</b>	1

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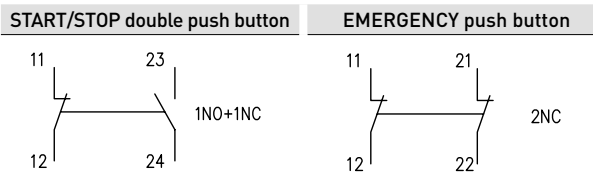
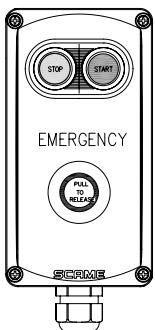
## LOCAL CONTROL STATIONS - TWO OPERATORS



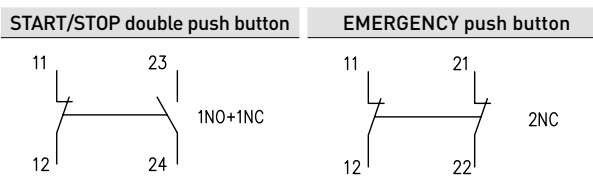
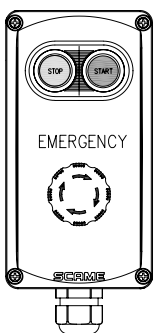
Description	Size	Cable entries	Function	Code	
ON/OFF DOUBLE PUSH BUTTON + EMERGENCY PUSH BUTTON PULL TO RELEASE	3	1xM25	ON/OFF 1NO+1NC EMERGENCY 2NC	593.321-50FE	1



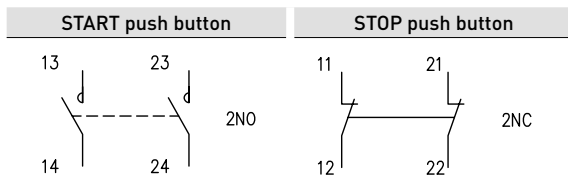
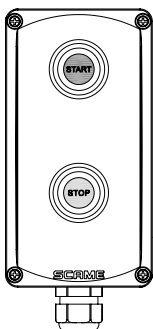
Description	Size	Cable entries	Function	Code	
ON/OFF DOUBLE PUSH BUTTON+ EMERGENCY PUSH BUTTON TWIST TO RELEASE	3	1xM25	ON/OFF 1NO+1NC EMERGENCY 2NC	593.321-50FER	1



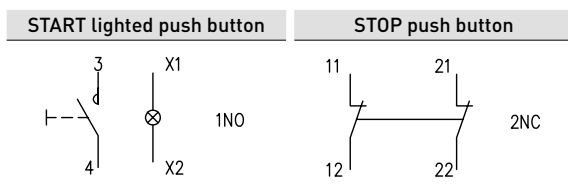
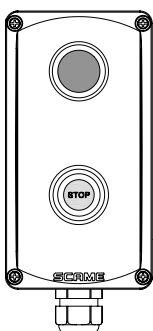
Description	Size	Cable entries	Function	Code	
START/STOP DOUBLE PUSH BUTTON + EMERGENCY PUSH BUTTON PULL TO RELEASE	3	1xM25	START/STOP 1NO+1NC EMERGENCY 2NC	593.321-5SSE	1



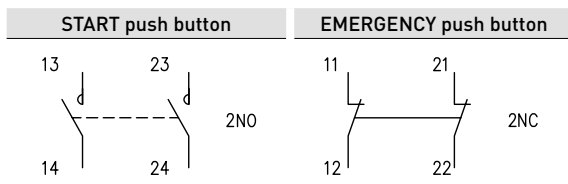
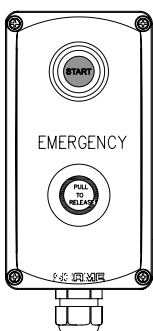
Description	Size	Cable entries	Function	Code	
START/STOP DOUBLE PUSH BUTTON + EMERGENCY PUSH BUTTON TWIST TO RELEASE	3	1xM25	START/STOP 1NO+1NC EMERGENCY 2NC	593.321-5SSER	1



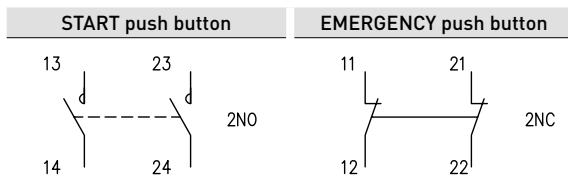
Description	Size	Cable entries	Function	Code	
START PUSH BUTTON + STOP PUSH BUTTON	3	1xM25	START 2NO STOP 2NC	593.321-5SS	1



Description	Size	Cable entries	Function	Code	
START LIGHTED PUSH BUTTON + STOP PUSH BUTTON	3	1xM25	START 1NO STOP 2NC	593.321-5SSL	1

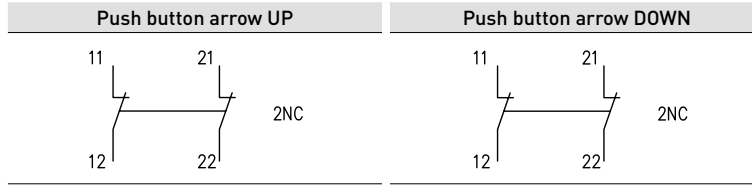
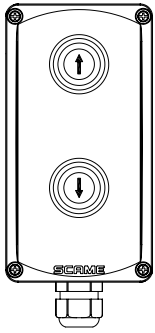


Description	Size	Cable entries	Function	Code	
START PUSH BUTTON + EMERGENCY PUSH BUTTON PULL TO RELEASE	3	1xM25	START 2NO EMERGENCY 2NC	593.321-5SE	1

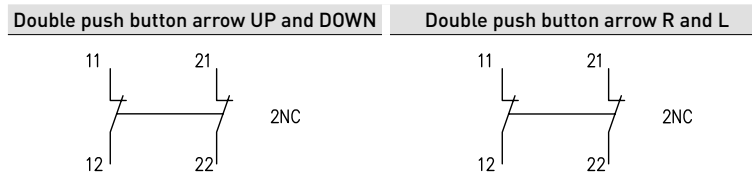
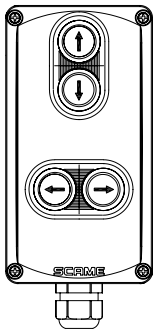


Description	Size	Cable entries	Function	Code	
START PUSH BUTTON + EMERGENCY PUSH BUTTON TWIST TO RELEASE	3	1xM25	START 2NO EMERGENCY 2NC	593.321-5SER	1

# COMPACT-EX[GD] SERIES

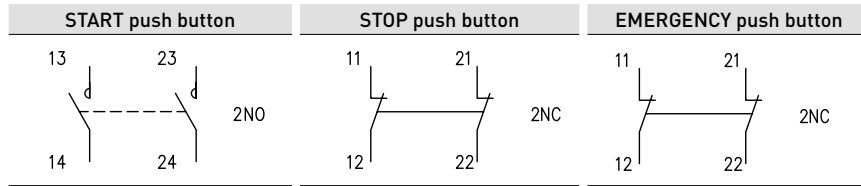
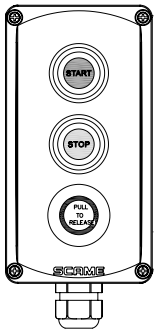


Description	Size	Cable entries	Function	Code	
PUSH BUTTON ARROW UP + PUSH BUTTON ARROW DOWN	3	1xM25	Arrow UP 2NC Arrow DOWN 2NC	<b>593.321-5UD</b>	1

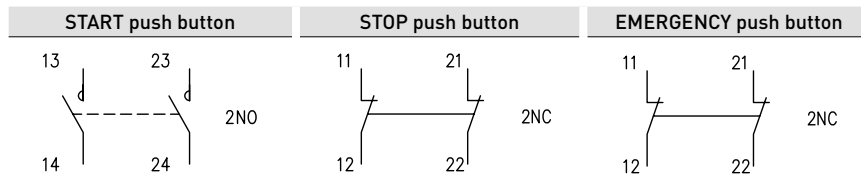
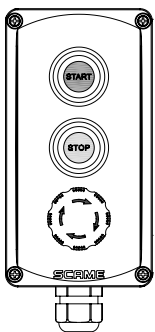


Description	Size	Cable entries	Function	Code	
DOUBLE PUSH BUTTON ARROW UP AND DOWN + DOUBLE PUSH BUTTON ARROW RIGHT AND LEFT	3	1xM25	Arrow UP and DOWN 2NC Arrow R and L 2NC	<b>593.321-5UDLR</b>	1

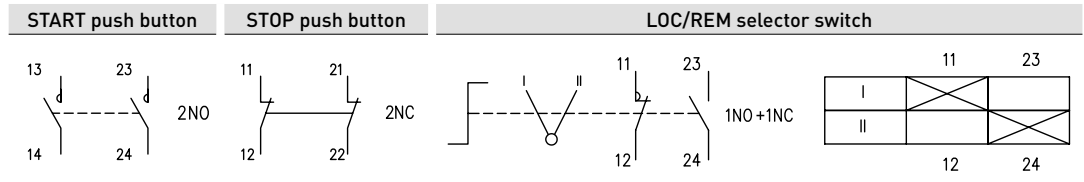
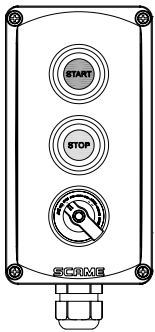
## LOCAL CONTROL STATIONS - THREE OPERATORS



Description	Size	Cable entries	Function	Code	
START PUSH BUTTON + STOP PUSH BUTTON + EMERGENCY PUSH BUTTON PULL TO RELEASE	3	1xM25	START 2NO STOP 2NC EMERGENCY 2NC	593.331-5SSE	1



Description	Size	Cable entries	Function	Code	
START PUSH BUTTON + STOP PUSH BUTTON + EMERGENCY PUSH BUTTON TWIST TO RELEASE	3	1xM25	START 2NO STOP 2NC EMERGENCY 2NC	593.331-5SSER	1



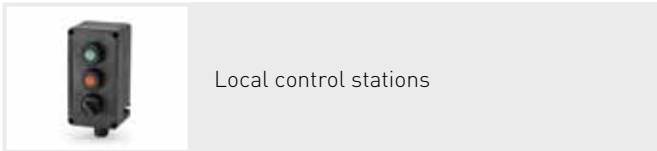
Description	Size	Cable entries	Function	Code	
START PUSH BUTTON + STOP PUSH BUTTON + LOC/REM SELECTOR	3	1xM25	START 2NO STOP 2NC SELECTOR SWITCH 1NO+1NC	593.331-5SSD	1

# COMPACT-EX[GD] SERIES

## LOCAL CONTROL STATIONS



## VERSIONS



## REFERENCE STANDARDS

EN 60947-1	EN 60947-5-5
EN 60947-3	EN 60529
EN 60947-5-1	ISO 13850

## ATEX-IECEX STANDARDS

IEC/EN 60079-0	IEC/EN 60079-18
IEC/EN 60079-1	IEC/EN 60079-31
IEC/EN 60079-7	

## MARKINGS AND DIRECTIVES



## TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	400V
Protection degree:	IP66
Installation temperature:	-35°C +60°C
Material:	Thermoplastic reinforced with glass fiber
Colour:	Black RAL 9011
Impact resistance (IK degree):	7J
Cable entries:	1 operator: 1xM20 2-3 operators: 1xM25

## Ex CHARACTERISTICS

ATEX category:	Ex II 2GD
Ex protection type:	Ex db eb mb IIC T6/T5 Gb Ex tb IIIC T80°C/T95°C Db
Certificates:	ATEX 22 IMQ 006 X IECEX IMQ 22.0001 X EMA 22 UKEX 0046 X

## CABLE ENTRIES

Size 1		Size 3	
Top	Bottom	Top	Bottom
1xM20x1.5	1xM20x1.5	1xM20x1.5	1xM20x1.5
2xM20x1.5	2xM20x1.5	2xM20x1.5 <sup>(1)</sup>	2xM20x1.5
1xM25x1.5 <sup>(1)</sup>	1xM25x1.5 <sup>(1)</sup>	1xM25x1.5 <sup>(1)</sup>	1xM25x1.5 <sup>(1)</sup>

<sup>(1)</sup> configuration not allowed when metallic cable gland are used.

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

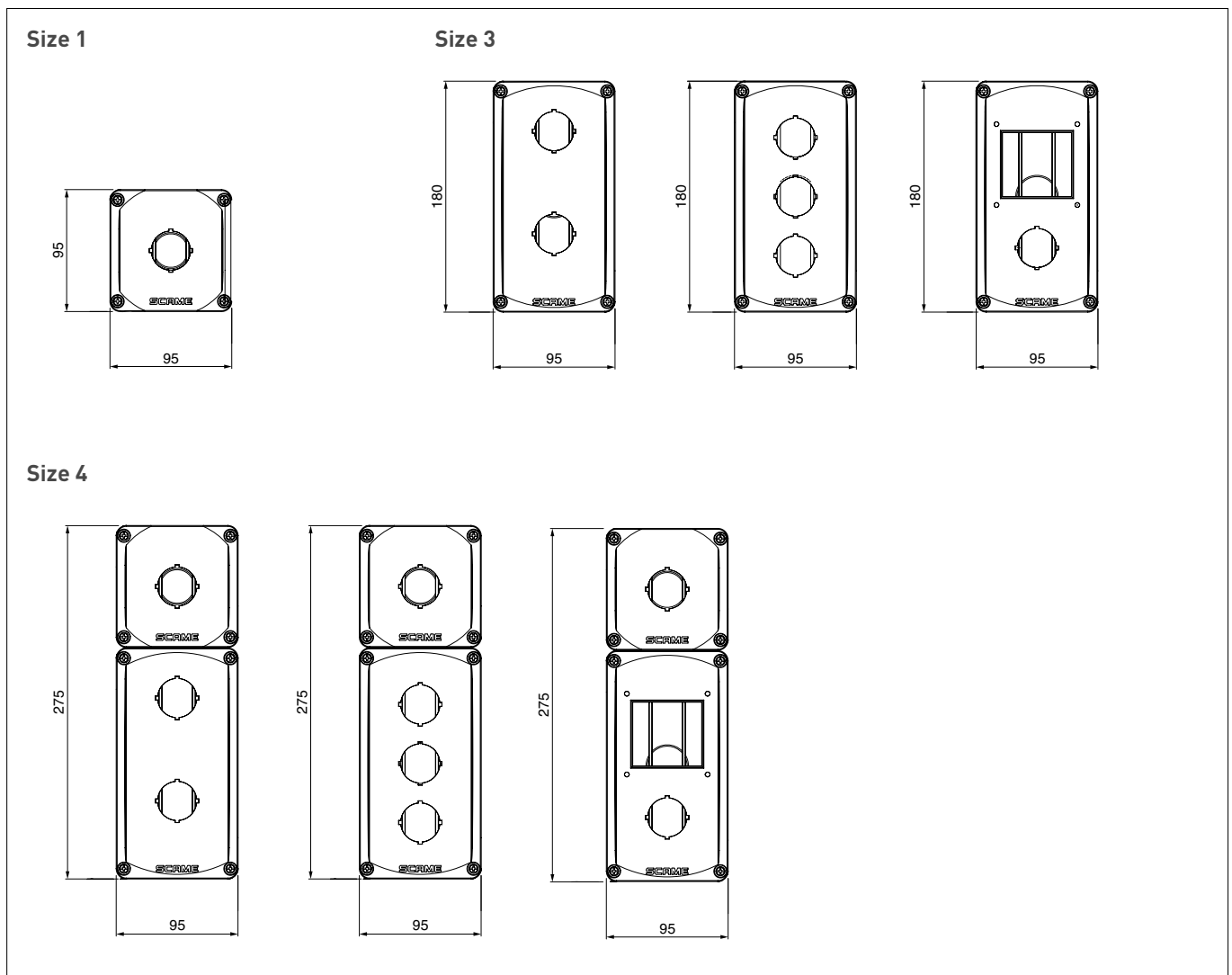
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ TECHNICAL CHARACTERISTICS 16A



Rated current $I_n$				16A
Rated impulse withstand voltage		$U_{imp}$	kV	6
Rated operational current $I_e$	AC12	Control of resistive loads and solid state loads with isolation by optocouplers	400V A	16
	AC15	Control of electromagnetic loads (>72 VA)	400V A	10
	DC13	Control of electromagnets	110V A	1
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	400V A	16
	AC23	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	400V A	16
Short circuit withstand current		$(I_{cw}) (1s)$	kA	10
Rated short circuit making capacity		$(I_{cm})$	kA	17
Short circuit protection			A/V	16/500



ZP01194-EN-2  
8 001636 416755



SCAME PARRE S.p.A.  
Via Costa Erta, 15 - 24020 Parre (BG) Italy  
Tel. +39 035 705000 - Fax +39 035 703122



[www.scame.com](http://www.scame.com)  
[export@scame.com](mailto:export@scame.com)

