

# SKX 12 ... SKX 15

IP 66



## CONSTRUCTION

Enclosure: polyester plastic reinforced with glass fiber, color - black  
Cover: with integrated thermoplastic elastomer gasket, closes with four M5/M6 stainless steel screws.

## TECHNICAL DATA

<b>Certificate:</b>	FIDI 19 ATEX 0051X EAC RU C-HR.HB07.B.00269/20
<b>Marking:</b>	0722
<b>Apparatus category:</b>	II 2GD I M2
<b>Marking of explosion protection:</b>	Ex db eb ia/ib mb IIC T6 Gb Ex db eb ia/ib mb I Mb Ex tb IIIC T80°C Db
<b>Ambient temperature:</b>	-20°C ≤ T <sub>a</sub> ≤ +40°C / +50°C / +55°C [ATEX] -50°C / -40°C / -20°C ≤ T <sub>a</sub> ≤ +40°C / +50°C / +55°C [EAC]
<b>Degree of protection:</b>	IP 66 category 1 for II 2GD IP 64 category 1 for I M2
<b>Resistance to shock:</b>	IK 08
<b>Protection class :</b>	I (protective earthing)
<b>Rated voltage:</b>	630 V AC (with mantle terminals block SL5, SL8 U <sub>i</sub> = 400V AC)
<b>Thermal current I<sub>the</sub> :</b>	16 A max. at T <sub>amb</sub> -20°C ÷ +40°C 10 A max. at T <sub>amb</sub> -20°C ÷ +50°C 7 A max. at T <sub>amb</sub> -20°C ÷ +55°C
<b>PE terminals (inside of the enclosure):</b>	max. 2x4 mm <sup>2</sup> +2x2,5 mm <sup>2</sup> , 3x4 mm <sup>2</sup> , 2x6 mm <sup>2</sup>
<b>Weight (only GRP boxes):</b>	SKX 12 ..... 0.5 kg SKX 13 ..... 0,7 kg SKX 14 ..... 1.0 kg SKX 15 ..... 1.0 kg

## MOUNTING

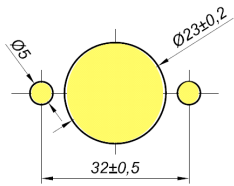
With screw kit through the housing holes φ6 mm at the peaks the rectangle:

SKX 12: 75 x 50 mm  
SKX 13: 75 x 100 mm  
SKX 14: 75 x 150 mm  
SKX 15/15H: 125 x 150 mm

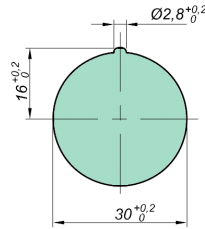
- Enclosures made of glass-fibre reinforced polyester resin
- 4 basic enclosure sizes
- Version with or without hinged door upon customer's requirements
- Alone or in various combinations of merged set
- Equipped with built-in devices:
  - ⇒ Control devices
  - ⇒ Indicating lamps
  - ⇒ Pushbuttons
  - ⇒ Control switches
  - ⇒ Ammeters

## Possible combinations and layout of indicators and actuators components

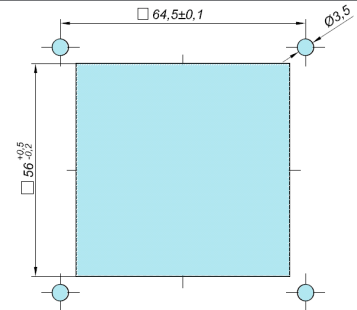
\* mounting proposals and dimensions



Switch actuator SMO 17/  
Switch mounting

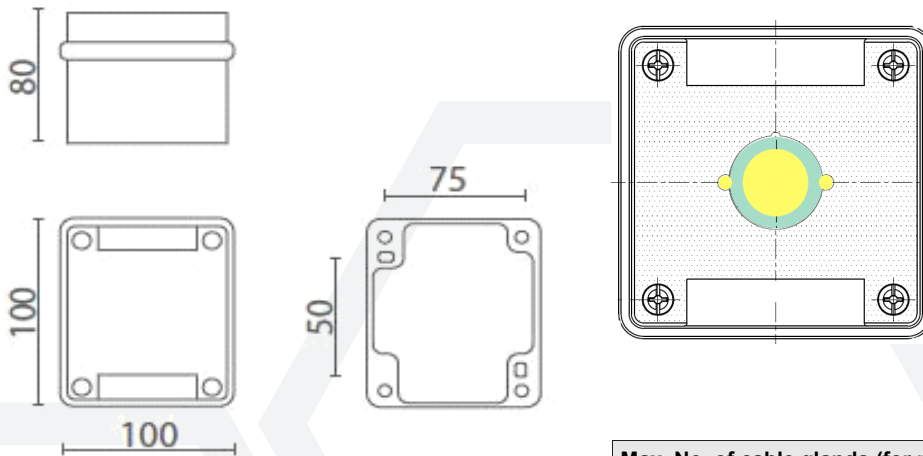


Pushbutton actuator SPO 01/  
Front element of signal lamp SPO 02/  
Pushbutton, signal lamp and potentiometer mounting



Front element of measuring instrument  
(AM, VM) SAM 72  
Measuring instrument mounting AM, VM

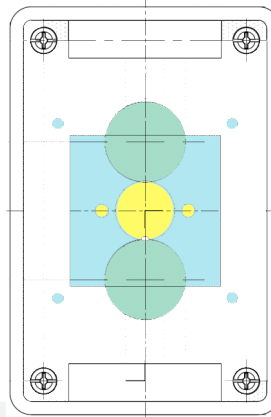
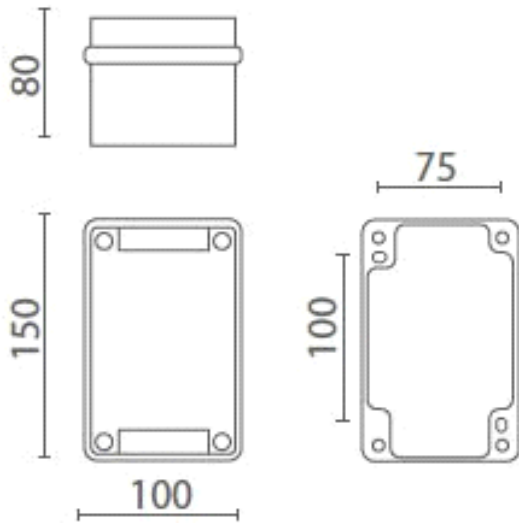
## Enclosure type SKX 12



Max. No. of cable glands (for plastic cable glands)			
cable gland side	M16	M20	M25
<b>A-C</b>	2	2	1
<b>B-D</b>	2	2	1

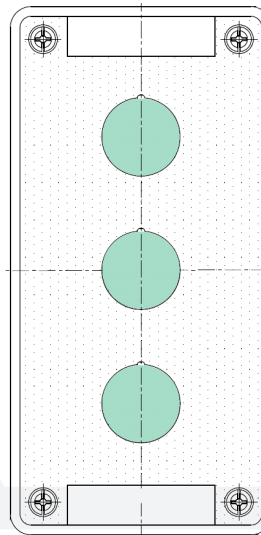
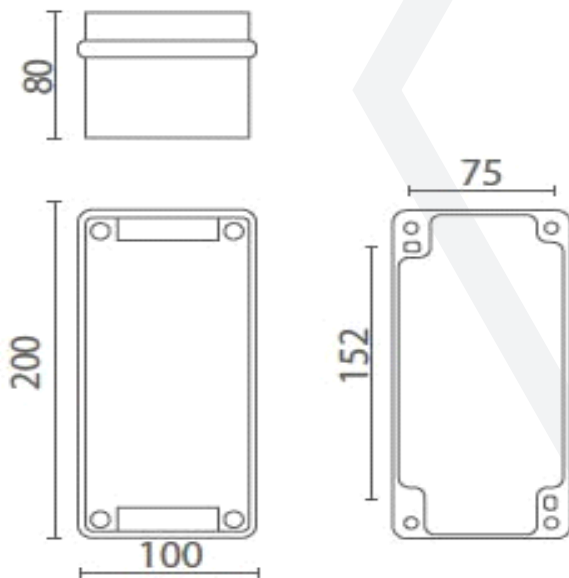
# SKX 12 ... SKX 15

## Enclosure type SKX 13



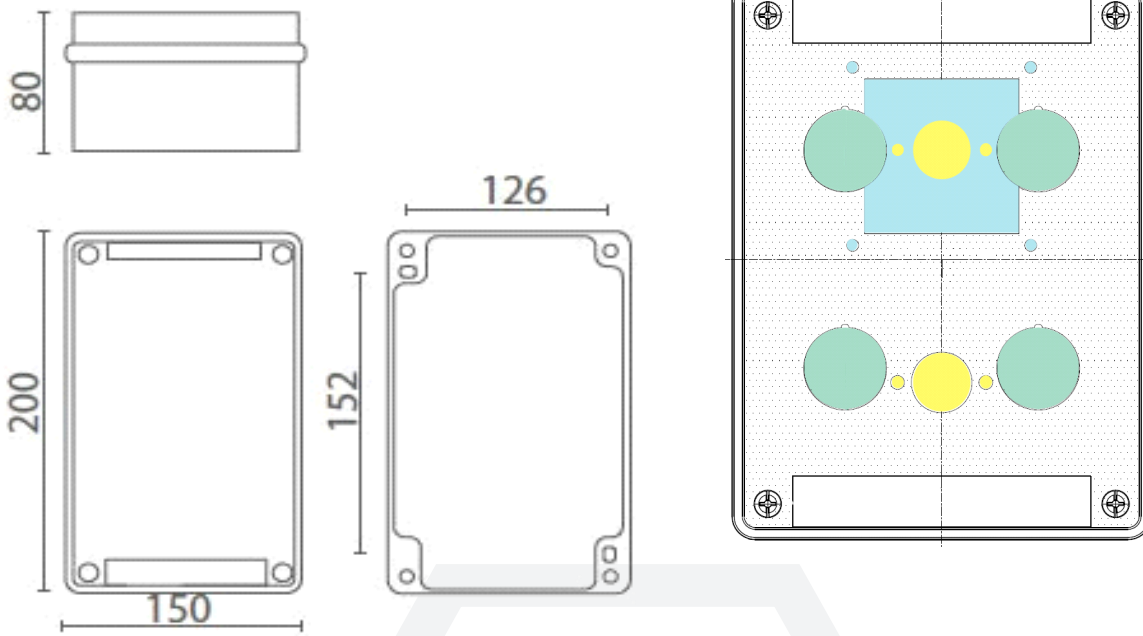
Max. No. of cable glands (for plastic cable glands)			
cable gland side	M16	M20	M25
<b>A-C</b>	2	2	1
<b>B-D</b>	4	3	2

## Enclosure type SKX 14



Max. No. of cable glands (for plastic cable glands)				
cable gland side	M16	M20	M25	M32
<b>A-C</b>	2	2	1	1
<b>B-D</b>	6	4	3	2

**Enclosure type SKX 15**



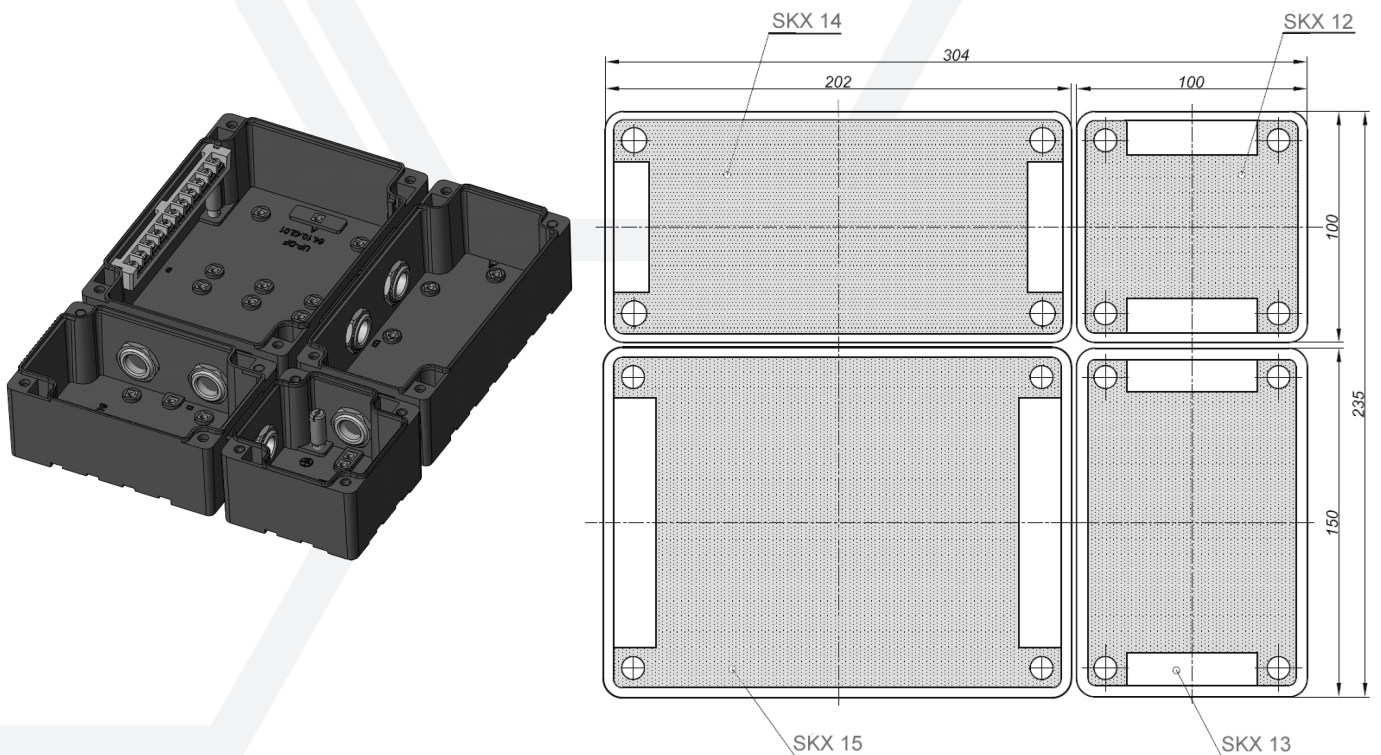
**Max. No. of cable glands (for plastic cable glands)**

cable gland side	M16	M20	M25	M32	M40
<b>A-C</b>	4	3	2	2	1
<b>B-D</b>	6	4	3	2	2

\* with built-in N/PE busbar

cable gland side	M16	M20	M25	M32	M40
<b>A-C</b>	4	3	2	2	1
<b>B-D</b>	5	3	3	-	-

**Various combinations of merged set (combination) of SKX enclosures**

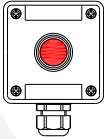
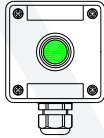
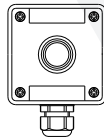
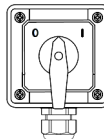
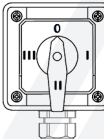
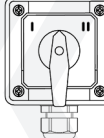

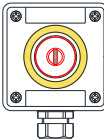
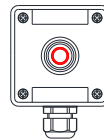


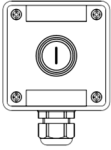
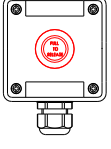

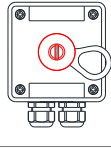
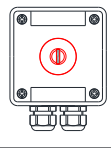
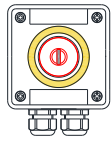
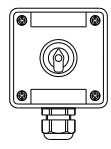
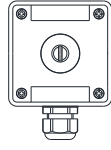
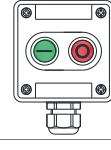
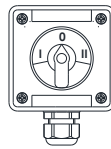
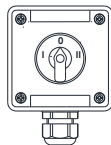
The program consists of serial control units and control units tailored to customer's request.

By combining a large number of built-in components with glass-reinforced plastic and stainless steel AISI 316L enclosures in various sizes, we can create a huge variety of control units. The most popular combinations are featured in the following tables.

#### MODEL CODE - MOST POPULAR COMBINATIONS

##### SKX 12/..

Type	Built-in components and actuator / indicator	Overview
SKX 12/1	Signal lamp SLP - red signal lamp front element SPO 02/1 - cable gland SPU 25	
SKX 12/2	Signal lamp SLP - green signal lamp front element SPO 02/2 - cable gland SPU 25	
SKX 12/3	Signal lamp SLP - transparent signal lamp front element SPO 02/4 - cable gland SPU 25	
SKX 12/21	Switch SMS 03/1 - switch actuator SMO 17/1 - cable gland SPU 25	
SKX 12/22	Switch SMS 03/8 - switch actuator SMO 17/5 - cable gland SPU 25	
SKX 12/23	Switch SMS 03/6 - switch actuator SMO 17/2 - cable gland SPU 25	
SKX 12/31	Pushbutton PBT 01 (1NO+1NC) - key-operated mushroom-head pushbutton actuator - cable gland SPU 25	
SKX 12/31-1	Pushbutton PBT 01 (1NO+1NC) - key-operated mushroom-head pushbutton actuator with accidental contact protection - cable gland SPU 25	
SKX 12/32	Pushbutton PBT 01 (1NO+1NC) - "0" pushbutton actuator SPO 01/1 - cable gland SPU 25	

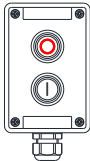

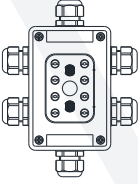
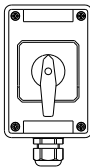
Type	Built-in components and actuator / indicator	Overview
SKX 12/33	Pushbutton PBT 01 (1NO+1NC) - "I" pushbutton actuator SPO 01/2 - cable gland SPU 25	
SKX 12/34	Pushbutton PBT 01 (1NO+1NC) - mushroom-head pushbutton actuator - cable gland SPU 25	
SKX 12/34-1	Pushbutton PBT 01 (1NO+1NC) - mushroom-head pushbutton actuator with accidental contact protection - cable gland SPU 25	
SKX 12/35	Pushbutton PBT 01 (1NO+1NC) - Mushroom-head pushbutton actuator with protector - 2x cable gland M20	
SKX 12/36	Pushbutton PBT 01 (1NO+1NC) - key-operated mushroom-head pushbutton actuator - 2x cable gland M20	
SKX 12/36-1	Pushbutton PBT 01 (1NO+1NC) - key-operated mushroom-head pushbutton actuator with accidental contact protection - 2x cable gland M20	
SKX 12/37	Potentiometer - cable gland SPU 25	
SKX 12/38	Pushbutton PBT 01 (1NO+1NC) - key-operated pushbutton actuator - cable gland SPU 25	
SKX 12/40	Double pushbutton (one independently operated axis NO, one independently operated axis NC) - pushbutton actuator with two axes - cable gland SPU 25	
SKX 12/41	Double pushbutton (two independently operated axes NO) - large rotational pushbutton actuator with holes for padlock - cable gland SPU 25	
SKX 12/42	Double pushbutton (two independently operated axes NO) - small rotational pushbutton actuator - cable gland SPU 25	

# SKX 12 ... SKX 15

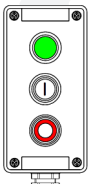
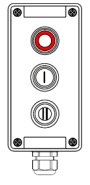
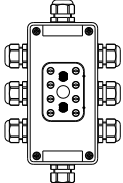
## MODEL CODE - MOST POPULAR COMBINATIONS

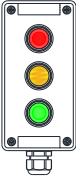

The program consists of serial control units and control units tailored to customer's request.

### SKX 13/..

Type	Built-in components and actuator / indicator	Overview
SKX 13/1	2x pushbutton PBT 01 (1NO+1NC) - "0" pushbutton actuator SPO 01/1 - "I" pushbutton actuator SPO 01/2 - cable gland SPU 25	
SKX 13/11	Signal lamp SLP - green signal lamp front element SPO 02/2 Pushbutton PBT 01 (1NO+1NC) - "I" pushbutton actuator SPO 01/2 - cable gland SPU 25	
SKX 13/21	Mantle terminals SL 8 - 6x cable gland SPU 25	
SKX 13/10	Switch SMS 03/1 - switch actuator SMO 17/1 - cable gland SPU 25	
SKX 13/20	SMS 03/4 - SMO 17/2 - SPU 25	
SKX 13/30	SMS 03/5 - SMO 17/2 - SPU 25	
SKX 13/40	SMS 03/6 - SMO 17/2 - SPU 25	
SKX 13/60	SMS 03/3 - SMO 17/3 - SPU 25	
SKX 13/70	SMS 03/2 - SMO 17/1 - SPU 25	
SKX 13/80	SMS 03/7 - SMO 17/1 - SPU 25	
SKX 13/100	SMS 03/8 - SMO 17/5 - SPU 25	
SKX 13/110	SMS 03/9 - SMO 17/1 - SPU 25	
SKX 13/120	SMS 03/11 - SMO 17/2 - SPU 25	

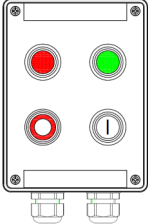
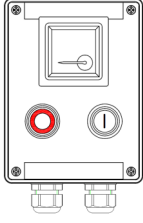
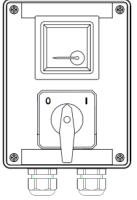
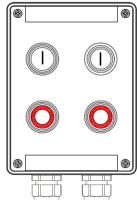
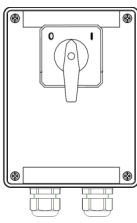
### SKX 14/..

Type	Built-in components and actuator / indicator	Overview
SKX 14/1	Signal lamp SLP - green signal lamp front element SPO 02/2 2x pushbutton PBT 01 (1NO+1NC) - "0" pushbutton actuator SPO 01/1 - "I" pushbutton actuator SPO 01/2 - cable gland SPU 25	
SKX 14/11	3x pushbutton PBT 01 (1NO+1 NC) - "0" pushbutton actuator SPO 01/1 - "I" pushbutton actuator SPO 01/2 - "II" pushbutton actuator SPO 01/3 - cable gland SPU 25	
SKX 14/21	Mantle terminals SL 8 - 8x cable gland SPU 25	

Type	Built-in components and actuator / indicator	Overview
SKX 14/22	<p>3x signal lamp SLP</p> <ul style="list-style-type: none"> <li>- red signal lamp front element SPO 02/1</li> <li>- yellow signal lamp front element SPO 02/3</li> <li>- green signal lamp front element SPO 02/2</li> <li>- cable gland SPU 25</li> </ul>	
SKX 14/31	<p>3x pushbutton PBT 01 (1NO+1NC)</p> <ul style="list-style-type: none"> <li>- "0" pushbutton actuator SPO 01/1</li> <li>- "1" pushbutton actuator SPO 01/2</li> <li>- mushroom-head pushbutton actuator</li> <li>- cable gland SPU 25</li> </ul>	

**MODEL CODE - MOST POPULAR COMBINATIONS**

**SKX 15/..**

Type	Built-in components and actuator / indicator	Overview
SKX 15/1	<p>2x signal lamp SLP</p> <ul style="list-style-type: none"> <li>- red signal lamp front element SPO 02/1</li> <li>- green signal lamp front element SPO 02/2</li> </ul> <p>2x pushbutton PBT 01 (1NO+1NC)</p> <ul style="list-style-type: none"> <li>- "0" pushbutton actuator SPO 01/1</li> <li>- "1" pushbutton actuator SPO 01/2</li> <li>- 2x cable gland SPU 25</li> </ul>	
SKX 15/11	<p>Ammeter AM 72 with a scale created according to customer's request</p> <p>2x pushbutton PBT 01 (1NO+1NC)</p> <ul style="list-style-type: none"> <li>- "0" pushbutton actuator SPO 01/1</li> <li>- "1" pushbutton actuator SPO 01/2</li> <li>- 2x cable gland SPU 25</li> </ul>	
SKX 15/21	<p>Ammeter AM 72 with a scale created according to customer's request</p> <p>Switch SMS 03/2</p> <ul style="list-style-type: none"> <li>- switch actuator SMO 17/1</li> <li>- 2x cable gland SPU 25</li> </ul>	
SKX 15/34	<p>4x pushbutton PBT 01 (1NO+1NC)</p> <ul style="list-style-type: none"> <li>- 2x "1" pushbutton actuator SPO 01/2</li> <li>- 2x "0" pushbutton actuator SPO 01/1</li> <li>- 2x cable gland SPU 25</li> </ul>	
SKX 15/41	<ul style="list-style-type: none"> <li>- Switch SMS 03/7</li> <li>- switch actuator SMO 17/1</li> <li>- 2x max. 16 mm<sup>2</sup> terminal blocks</li> <li>- 2x cable gland SPU 25</li> </ul>	

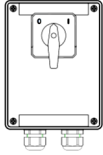
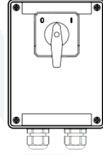
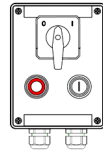


# SKX 12 ... SKX 15

## MODEL CODE - MOST POPULAR COMBINATIONS

The program consists of serial control units and control units tailored to customer's request.

### SKX 15/..

Type	Built-in components and actuator / indicator	Overview
SKX 15/50	Switch SMS 03/12 - switch actuator SMO 17/2 - 2x cable gland SPU 25	
SKX 15/90	Switch SMS 03/10 - switch actuator SMO 17/3 - 2x cable gland SPU 25	
SKX 15/51	Switch SMS 03/11 - switch actuator SMO 17/3 2x pushbutton PBT/01 (1NO+1NC) - "0" pushbutton actuator SPO 01/1 - "1" pushbutton actuator SPO 01/2 2x cable gland SPU 25	
SKX 15/65	4x mantle terminals SL5 (max. 4x4 mm <sup>2</sup> per terminal, min 1x 1,5 mm <sup>2</sup> per terminal) - 8x cable gland SPU 25  This unit allows the connection of up to 80 wires with 4 mm <sup>2</sup> cross section.	