

# Components for safety applications

3227900  
(XY2-SB51)

## Two-hand ergonomic control stations

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### References

#### Two-hand control stations - painted



XY2-SB51

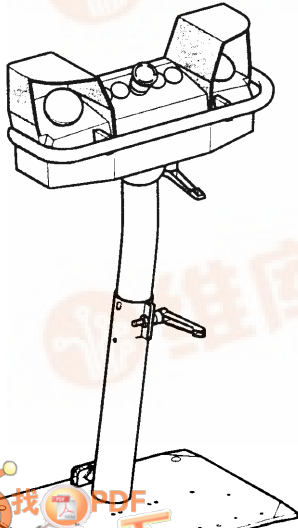
Description	Function and colour of mushroom head	Contacts (1)	Reference	Weight kg
2 control pushbuttons and 1 mushroom head Emergency Stop or Lock out pushbutton	Emergency stop Red	N/C + N/C slow break	XY2-SB51	4.000
	Lock out (Schaltsperr) Yellow	N/C + N/O break before make	XY2-SB55	4.000
2 control pushbuttons and 1 mushroom head Emergency Stop or Lock out pushbutton with pre-wired terminal block	Emergency stop Red	N/C + N/C slow break	XY2-SB52	4.000
	Lock out (Schaltsperr) Yellow	N/C + N/O break before make	XY2-SB56	4.000

#### Two-hand control stations - unpainted

2 control pushbuttons and 1 mushroom head Emergency Stop or Lock out pushbutton	Emergency stop Red	N/C + N/C slow break	XY2-SB512	4.000
	Lock out (Schaltsperr) Yellow	N/C + N/O break before make	XY2-SB552	4.000

(1) In addition to 1 N/O + 1 N/C contact supplied as standard on two-hand pushbuttons.

#### Kits (control station + pedestal)



2 control pushbuttons and 1 mushroom head Emergency stop pushbutton + pedestal XY2-SB90	Emergency stop Red	N/C + N/C slow break	XY2-SB514	17.000
2 control pushbuttons and 1 mushroom head Emergency stop pushbutton with pre-wired terminal block + pedestal XY2-SB90	Emergency stop Red	N/C + N/C slow break	XY2-SB524	17.000

#### Documentation

Description	For use with	Reference	Weight kg
Installation manual	All control stations XY2-XB5	XCOM2513	0.200

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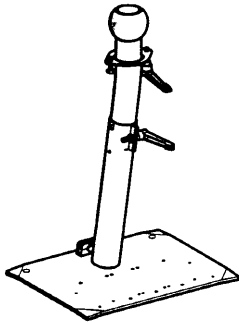
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322-7911

### Accessories and spare parts

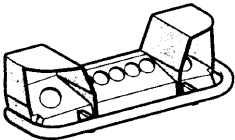


XY2-SB90



XY2-SB98

4



XY2-SB510



XY2-SB94



ZB2-BR216



ZB2-BS844



ZB2-BS845

#### Varied accessories

Description	For use with	Colour	Reference	Weight kg
<b>Metal pedestal adjustable height</b>	XY2-SB5●	Orange	XY2-SB90	13.000
<b>Collar for guard rail (welded fixing)</b>	XY2-SB90	Orange	XY2-SB98	0.800
<b>Control station top without control devices</b>	-	Orange	XY2-SB510	2.500
<b>Replacement seals (sold in lots of 5)</b>	-	-	XY2-SB94	0.300
<b>Control units (1)</b>				
Description	Component part	Colour	Reference	Weight kg
<b>Pushbutton actuator</b>	Ø 60 mm mushroom head	Black	ZB2-BR216	0.095
	Body/contact assembly N/C + N/O	-	ZB2-BZ105	0.055
<b>Emergency stop pushbutton</b>	Ø 40 mm mushroom head	Red	ZB2-BS844	0.060
	Body/contact assembly N/C + N/O	-	ZB2-BZ104	0.055
<b>Lock out pushbutton</b>	Ø 40 mm mushroom head	Yellow	ZB2-BS845	0.060
	Body/contact assembly N/C + N/O	-	ZB2-BZ105	0.055

(1) Other XY2-B control and signalling units are available for use with the control station.

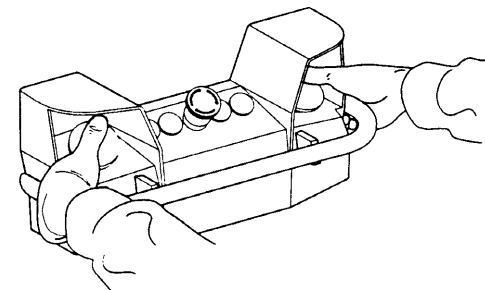
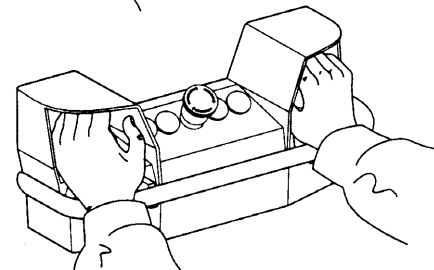
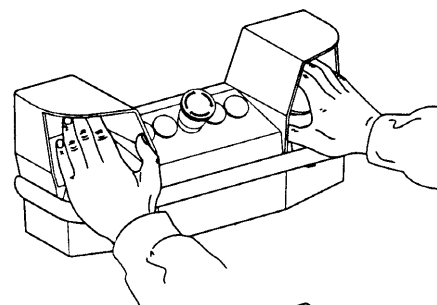
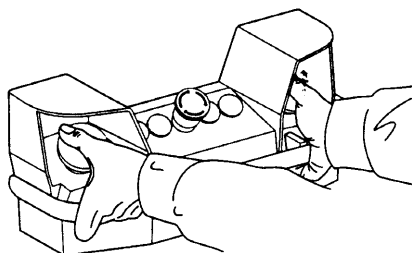
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### Presentation

### Presentation



The design of the control station incorporates features to significantly reduce occupational illnesses associated with repetitive movements of the hands, particularly "carpal tunnel syndrome".

The health and comfort of the machine operator is assured by :

- the numerous alternative hand positions for operating the two pushbutton actuators, see diagrams to left,
- a hand rail,
- simple and fast adjustments of control station position.

This two-hand control station protects machine operators against both industrial accidents and illnesses related to their occupation.

It conforms to the following European safety standards :

- EN 574 (two-hand control),
- prEN 999 (approach speeds of parts of the human body and positioning of safety devices).

The control station can be mounted :

- directly on the machine housing, or
- on a pedestal that enables the control station to be adjusted for :
  - height,
  - rake,
  - skew.

The use of a two-hand control station in conjunction with a PREVENTA safety module type XPS-BC provides type III C two-hand control conforming to EN 574.

The XPS-BC safety module has an EC examination of type certificate issued by BERUFGENOSSENSCHAFT of Germany (1996), n° 007052001181295.

The range comprises :

- two-hand control stations with or without pre-wired terminal blocks,
- kits (control station + pedestal), with or without pre-wired terminal blocks.

The products are supplied with an installation manual, which is also available as a separate item.

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### Description

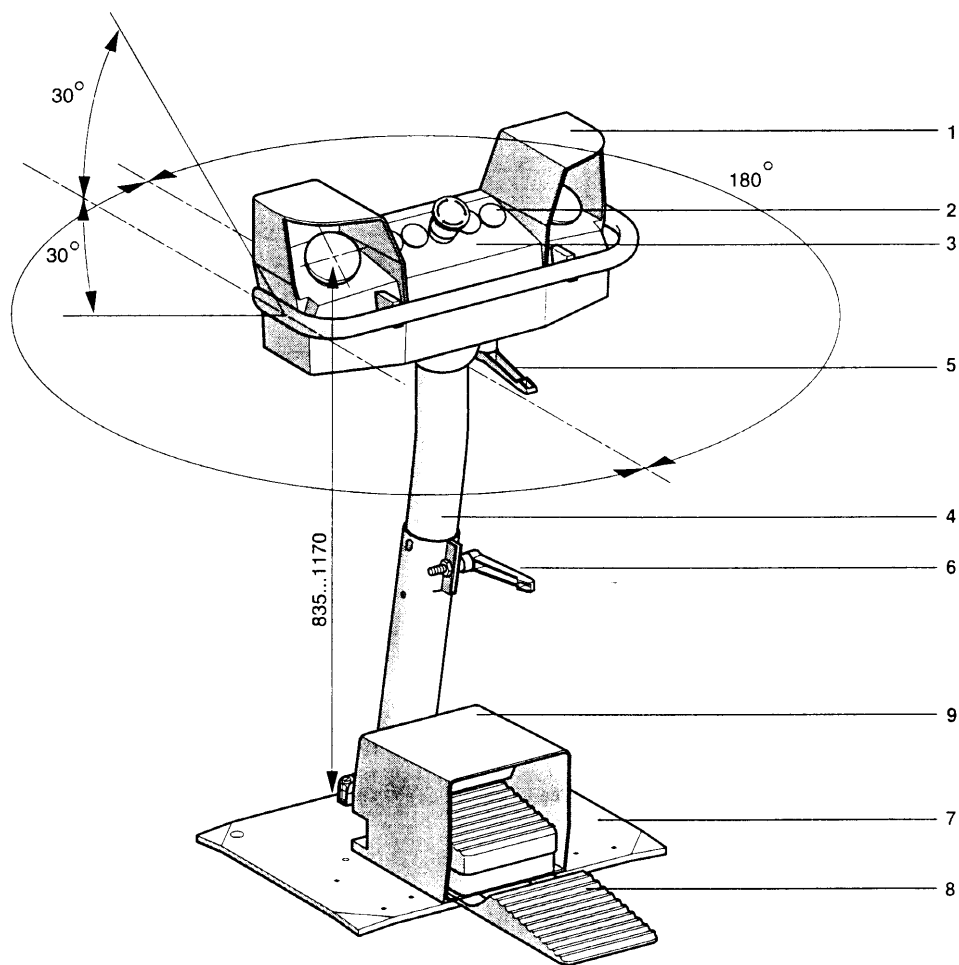
### Description

The control station 1 has 5 cut-outs ( $\varnothing 22$  mm) 2 as standard. 5 additional cut-outs are possible 3.

Its pedestal 4 enables the following quick and simple adjustments :

- control station rake ( $\pm 30^\circ$ ) using handle 5,
- control station skew ( $\pm 180^\circ$ ) using handle 6,
- control station height (835 to 1170 mm) using handle 6.

The baseplate 7 can be fitted with safety foot switches type XPE-R 8, together with their protective covers 9. See page 4/18.



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### Characteristics

#### Environment

Conforming to standards			IEC 947-5-1, EN 60947- 5-1, EN 574, EN 292, pr EN 999
Approvals			INRS UL - CSA : pending
Protective treatment	Standard version		"TC"
Ambient air temperature	Operation	°C	- 25...+ 70
	Storage	°C	- 40...+ 70
Vibration resistance	Conforming to IEC 68-2-6	gn	5 (10...150 Hz)
Shock resistance	Conforming to IEC 68-2-27	gn	30
Electric shock protection	Conforming to IEC 536 & NF C 20-030		Class I
Degree of protection	Conforming to IEC 529		IP 65
Mechanical durability	Number of operating cycles		1 million
Cable entry	See dimensions, page 3/15		

#### Contact block characteristics

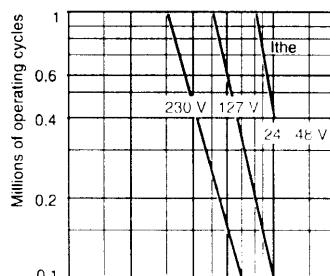
Rated operational characteristics	~ AC-15		A600 or Ue = 240 V and Ie = 3 A
	--- DC-13		Q600 or Ue = 250 V & Ie = 0.27 A conforming to IEC 947-5-1 Appendix A
Rated insulation voltage	Conforming to IEC 947-1	V	Ui = 500 degree of pollution 3
	To UL 508 and CSA C22-2 n° 14	V	Ui = 600
Rated impulse withstand voltage	Conforming to IEC 947-1	kV	U imp = 6
Contact operation	Slow break, with positive opening operation		- N/C + N/O break before make on each black actuator pushbutton - N/C + N/C simultaneous on Emergency stop pushbutton - N/C + N/O break before make on Lock out pushbutton
Positive operation	Conforming to IEC 947-5-1 Section 3		N/C contact with positive opening operation
Terminal referencing	Conforming to CENELEC EN 50013		
Short-circuit protection	Conforming to IEC 269		10 A cartridge fuse type gG (gl)
Cabling	Screw clamp terminals	mm <sup>2</sup>	Minimum clamping capacity : 1 x 0.5 Maximum clamping capacity : 1 x 2.5 or 2 x 1.5

**Rated operational power**  
(Electrical durability)  
Conforming to  
IEC 947-5-1 Appendix C

Utilisation categories AC-15 and DC-13. Operating rate : 3600 operating cycles/hour. Load factor : 0.5

**XY2-SB5● :**  
**a.c. supply** ~ 50-60 Hz  
~ Inductive circuit

**d.c. supply** ---  
Power broken in W  
for 1 million operating cycles  
~ Inductive circuit



Voltage	V	24	48	120
~	W	65	48	40

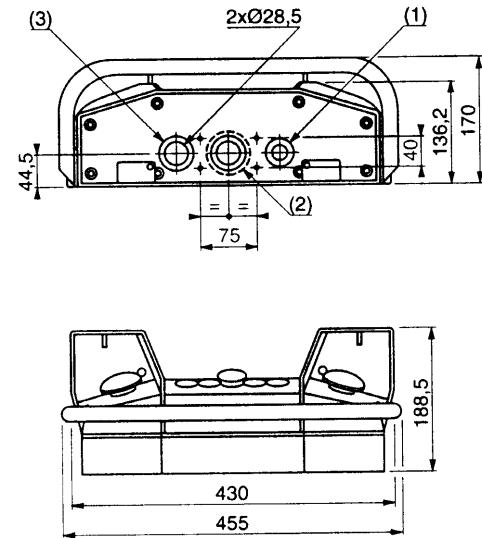
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## Two-hand ergonomic control stations

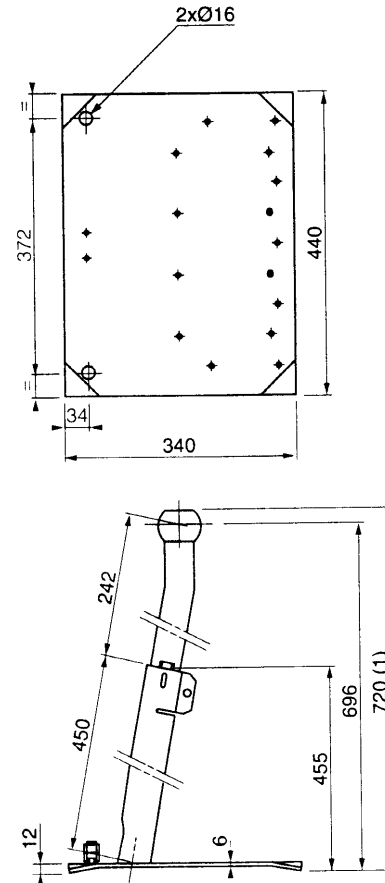
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### Dimensions

**Control station  
XY2-SB5●**



**Pedestal  
XY2-SB90**



- (1) 1 plain hole for addition of PG13 cable gland.  
(2) Ø 56 mm knock-out specifically for mounting on pedestal.  
(3) 2 plain holes for addition of PG21 cable glands.

- (1) Adjustable height of pedestal 720 to 1060 mm.