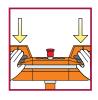
Enabling movement

Two-hand ergonomic control stations XY2SB

Catalog October 2015







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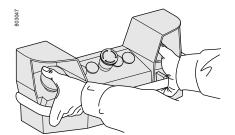
Enabling movement

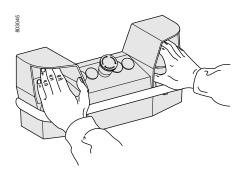
Two-hand ergonomic control stations XY2SB

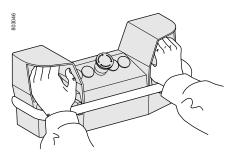
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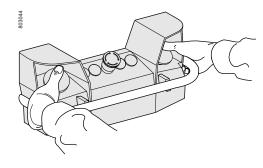
Enabling movement

Two-hand ergonomic control stations With Harmony XB4 B control units









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 2 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/ISO 13851 (two-hand control),
- EN 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,
- on a pedestal, enabling 3 directional adjustment:
- □ height,
- □ rake,
- □ skew.

The use of a two-hand control station in conjunction with a safety module type XPS BCE or XPS BF provides type IIIC two-hand control conforming to 574/ISO 13851 and PL e / Category 4 according to EN/ISO 13859-1.

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.

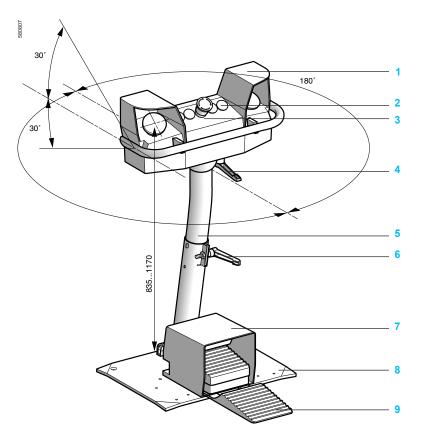
Description

The control station 1 has five cut-outs (Ø 22 mm) 2 as standard. Five additional cut-outs are possible 3.

Its pedestal 5 enables the following quick and simple adjustments:

- Control station rake (± 30°) using handle 4.
- Control station skew (± 180°) using handle 6.
- Control station height (835 to 1170 mm) using handle 6.

The baseplate 8 can be fitted with safety foot switches XPE R 9, together with their protective covers 7.



Observatoristics						
Characteristics						
Environment Conformity to standards			ENVIEC 60047 5 1 EN 574	/ISO 13851		
Conformity to standards			LIN/IEC 00947-0-1, EIN 574	N/IEC 60947-5-1, EN 574/ISO 13851		
Maximum safety level (1)			PL e, category 4 conforming	to EN/ISO 13849-1 and SIL 3	3 conforming to EN/IEC 61508	
Reliability data B10d	Contact block Harmony XB4B		25,000,000 (data value for mechanical wear)	a service life of 10 years: can	be limited by contact and	
Colour			Orange RAL 2008			
Protective treatment	Standard version		"TC"			
Ambient air temperature	For operation	°C	- 25+70			
	For storage	°C	- 40+ 70			
Vibration resistance	Conforming to EN/IEC 60068-2-6		5 gn (2500 Hz)			
Shock resistance	Conforming to EN/IEC 60068-2-27		10 gn (duration 11 ms)			
Electric shock protection	Conforming to EN/IEC 61140		Class I			
Degree of protection	Conforming to EN/IEC 60529		IP 65			
Mechanical life	Number of operating cycles		1 million			
Cable entries			See dimensions, page 9			
Contact block characteris	stics					
Rated operational ~AC-15 characteristics			A600 or Ue = 240 V and le	A600 or Ue = 240 V and Ie = 3 A		
	DC-13		Q600 or Ue = 250 V and Ie = 0.27 A conforming to EN/IEC 60947-5-1 Appendix A			
Rated insulation voltage	Conforming to EN/IEC 60947-1	V	Ui = 600, degree of pollution 3			
	Conforming to UL 508 and CSA C22-2 n° 14	V	Ui = 600			
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	kV	Uimp = 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 EN/IEC 60947-5-1 Appendix K		N/C contact with positive opening operation			
Terminal referencing			Conforming to CENELEC EN 50013			
Short-circuit protection	Conforming to EN/IEC 269		10 A cartridge fuse type gG (gl)			
Connection	Screw clamp terminals	mm²	Minimum clamping capacity: 1 x 0.22 or 1 x 0.22 + 1 x 0.34 Maximum clamping capacity: 1 x 2.5 or 2 x 1.5		34	
Electrical durability Conforming to		٧	24	120	230	
EN/IEC 60947-5-1 Appendix C Operating rate: 3600 operating		Α	4	3	2	
cycles/hour. Load factor: 0.5		٧	24	110		
		Α	0.5	0.2		
Electrical reliability	Failure rate According to EN/IEC 60947-5-4		At 17 V and 5 mA, λ < 10 ⁻⁸ At 5 V and 1 mA, λ < 10 ⁻⁶			

⁽¹⁾ Using an appropriate and correctly connected control system.



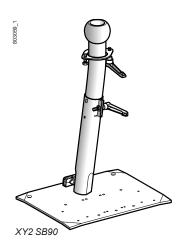
XY2SB7•

Two-hand control stations - painted							
Description	Mushroom head		Reference	Weight			
	Function and colour	Contacts		kg			
2 control pushbuttons with N/C + N/O break before make contacts and	Emergency stop Red	N/C + N/C slow break	XY2SB71	4.000			
1 mushroom head pushbutton	Lock out (Schaltsperre) Yellow	N/C + N/O break before make	XY2SB75	4.000			
2 control pushbuttons with N/C + N/O break before make contacts and	Emergency stop Red	N/C + N/C slow break	XY2SB72	4.000			
1 mushroom head pushbutton, with pre-wired terminal block	Lock out (Schaltsperre) Yellow	N/C + N/O break before make	XY2SB76	4.000			

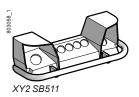
Who to enter Late Communicated						
Kits (control station + pedestal)						
Description	Mushroom head		Reference	Weight		
	Function and colour	Contacts		kg		
2 control pushbuttons and 1 mushroom head Emergency stop pushbutton + pedestal XY2 SB90	Emergency stop Red	N/C + N/C slow break	XY2SB714	17.000		
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	XY2SB724	17.000		



803025	
XYZ	2SB7•4















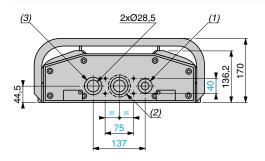
Various accessories				
Description	For use with	Colour	Unit reference	Weight kg
Metal pedestal adjustableheight	XY2SB••	Orange	XY2SB90	13.000
Collar for guard rail (weldedfixing)	XY2SB90	Orange	XY2SB98	0.800
Control station top withoutcontrol devices	-	Orange	XY2SB511	2.500
Control station base	-	Orange	XY2SB531	1.200
Double protective metal cover	Metal pedestal XY2SB90 and foot switches type XPE R	Orange	XY2SB96	4.370
Replacement handle (soldinlots of 5)	Metal pedestal XY2SB90	Black	XY2SB93	0.155
Replacement seals	-	_	XY2SB99	0.300
Adaptor (soldinlots of 5)	ISOM25	_	DE9RA2125	0.010
Fixing nut (soldinlots of 5)	Adaptor	_	DE9EC21	0.005
Control units (1)				
Description	Component part	Colour	Reference	Weight kg
Pushbutton actuator	Ø 60 mm mushroom head	Black	ZB4BR216	0.095
	N/C + N/O	_	ZB4BZ105	0.055

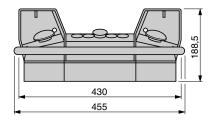
Control units (1)				
Description	Component part	Colour	Reference	Weight kg
Pushbutton actuator	Ø 60 mm mushroom head	Black	ZB4BR216	0.095
	N/C + N/O body/contact assembly	-	ZB4BZ105	0.055
Emergency stop pushbutton	Ø 40 mm mushroom head	Red	ZB4BS844	0.060
	N/C + N/C body/contact assembly	-	ZB4BZ104	0.055
Lock out pushbutton	Ø 40 mm mushroom head	Yellow, marked "Schaltsperre"	ZB4BS845S	0.060
	N/C + N/O body/contact assembly	-	ZB4BZ105	0.055

⁽¹⁾ Other XB4B control and signalling units are suitable for use on the control stations. Please refer to our "Human Machine Interface catalogue".

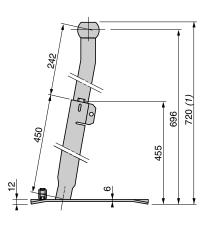
Dimensions

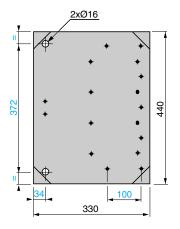
Control station XY2 SB7●



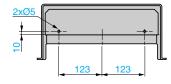


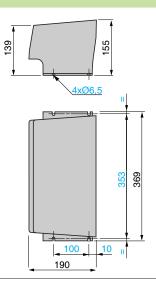
Pedestal XY2 SB90





Double protective cover XY2 SB96





^{(1) 2} plain holes for n° 13 (PG13.5) or ISO M20 cable gland. (2) Ø 56 mm knock-out specifically for mounting on pedestral. (3) 1 plain hole for n° 21 (PG21) cable gland. For ISO M25, use adaptator DE9 RA2125 and fixing nut DE9 EC21.

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

Product reference index

