

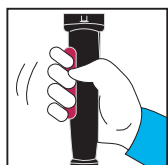
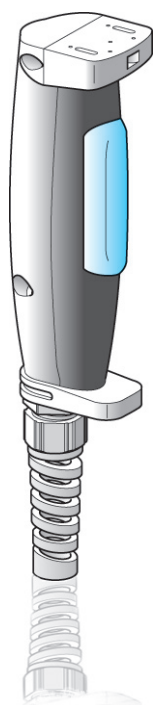
Enabling movement

Enabling switches for safety circuits

XY2AU

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October 2015



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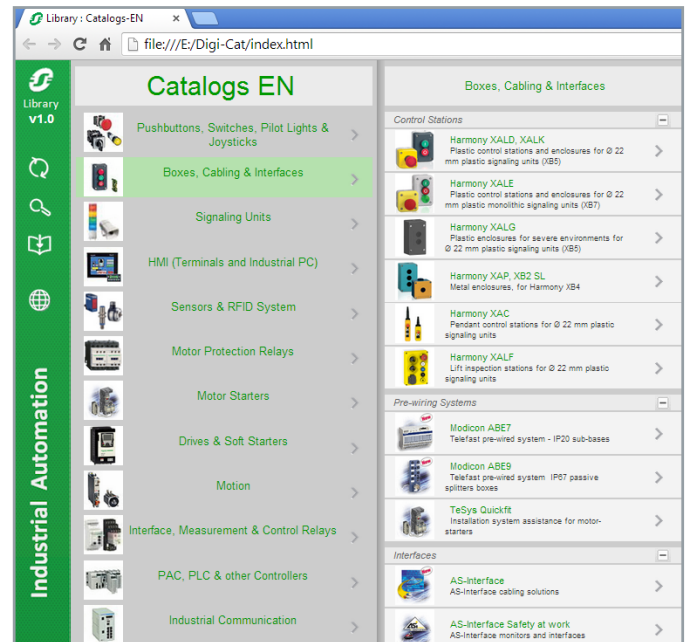
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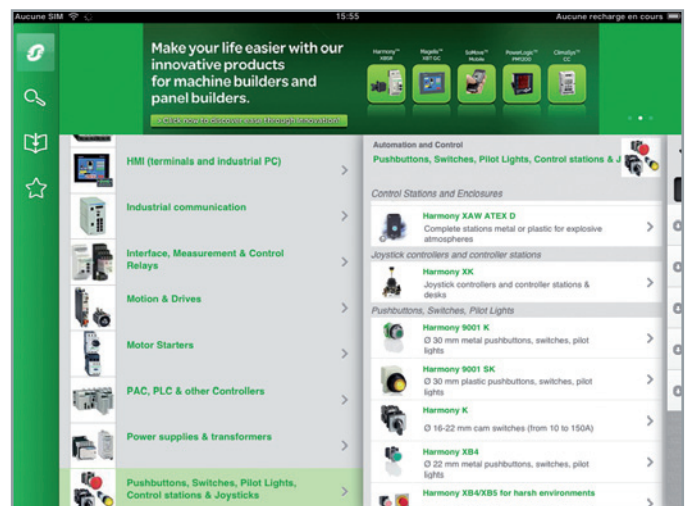
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General contents

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XY2AU

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Operating principle

Enabling switches, comprising an XY2AU grip and an XPSVC monitoring module, allow authorised personnel to undertake adjustment, programming or maintenance operations near machine equipment hazardous zones, providing certain conditions are met.

In effect, to gain access, these operations, often performed at reduced speed, must be selected by authorised personnel using selectors, with or without keys. Once selection is made, the enabling switch temporarily assumes control of the hazardous zone's usual protection measures. Important note: the enabling switch alone must not lead to the actuation of any dangerous movements associated with the machine; a secondary, intentional control action is required from the operator. In addition, each person in the hazardous zone must be provided with an enabling switch to ensure their own safety.

Environment

Conforming to standards	Products		IEC/EN 60947-1 , IEC/EN 60947-5-1, cUL us 508 and CSA C22-2 n° 14
	Machine assemblies		IEC/EN 60204-1
Maximum safety level (1)			PL e, category 4 conforming to EN/ISO 13849-1 and SIL 3 conforming to EN/IEC 61508
Reliability data B10d			5,000,000 (data value for a service life of 10 years: can be limited by contact and mechanical wear)
Protective treatment			Standard version: "TC"
Ambient air temperature	Operation	°C	- 10...+ 60
	Storage	°C	- 40...+70
Vibration resistance			6 gn (5...55 Hz) conforming to IEC 60068-2-6
Shock resistance			10 gn (11 ms) conforming to IEC 60068-2-27
Electric shock protection			Class II conforming to IEC/EN 61140
Degree of protection			IP 66 conforming to IEC 60529, IP 65 with a pushbutton, IK 06 conforming to EN 50102
Mechanical durability		Op. cycle	1 million
Enclosure			Double insulated enclosure made of PA66
Cable diameter		mm	7...13

Contact block characteristics

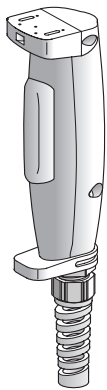
Rated operational characteristics			~ AC-15 : C300 or Ue = 250 V, Ie = 1.5 A or Ue = 125 V, Ie = 0.75 A --- DC-13 : R300 or Ue = 250 V, Ie = 0.1 A or Ue = 125 V, Ie = 0.22 A conforming to IEC 60947-5-1 Appendix A
Thermal current (Ithe)	A		5
Rated insulation voltage (Ui)	V		250, degree of pollution III (II inside) conforming to IEC 60947-1 125, contact 7-8
Rated impulse withstand voltage (Uimp)	kV		2.5 conforming to EN 60947-1
Positive operation			23-position contacts with positive opening operation conforming to IEC 60947-5-1 appendix K
Contact operation			Slow break
Resistance across terminals	mΩ		≤ 50
Actuation force			1... 2: 12 N 2... 3: 50 N
Terminal referencing			Numbered conforming to CENELEC EN 50013
Short-circuit protection			4 A cartridge fuse type gG (gl)
Connection	mm ²		Terminal block, 1 x 0.34...1 x 1.5

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

Enabling movement

Enabling switches for safety circuits

XY2AU



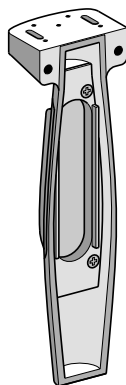
XY2AU●



XY2AZ1



XY2AZ2



XY2AZ3

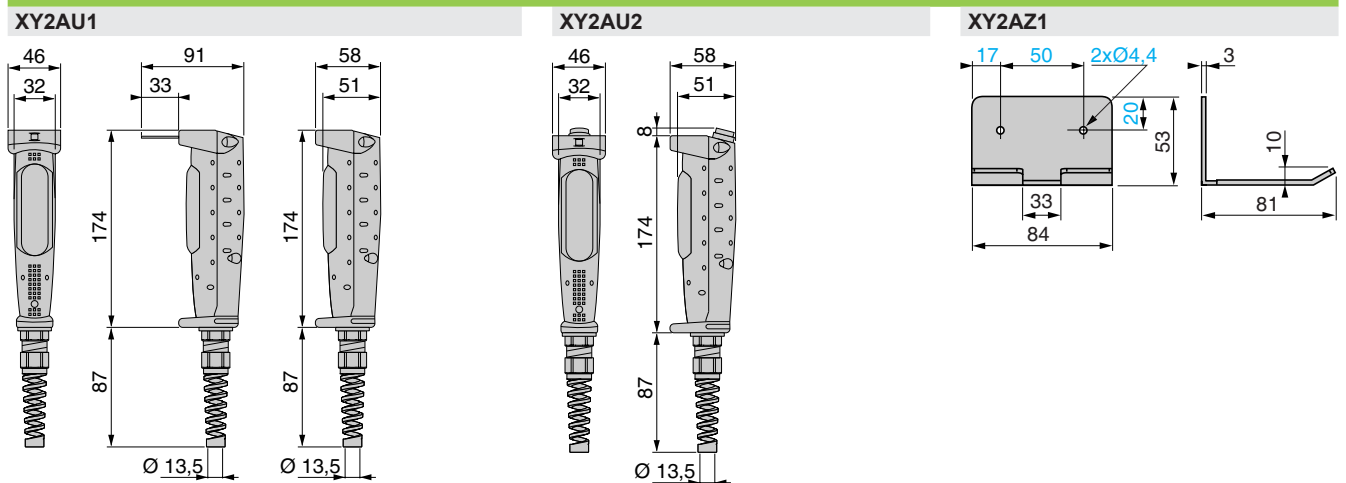
References

Number of contacts	Contact type	Contact blocks and scheme	Reference	Weight kg
3	2 enabling 3 positions + 1 N/C		XY2AU1	0.310
	2 enabling 3 positions + 1 N/C + 1 N/O supplementary contact		XY2AU2	0.320

Separate components and spare parts

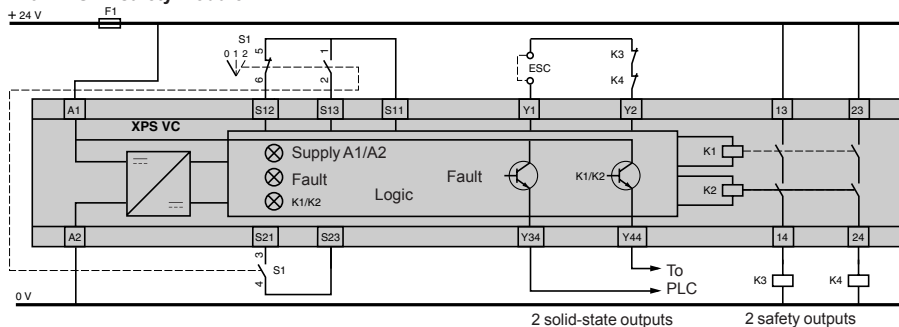
Description	Reference	Weight kg
Grip support	XY2AZ1	0.215
Cover kit for key actuator XCSZ01 or XCSZ11 only applicable to XY2AU1	XY2AZ2	0.015
Cover	XY2AZ3	0.060

Dimensions



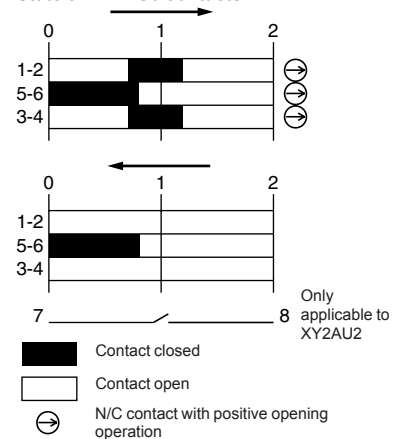
Connection example

With XPSVC safety module



ESC : external start conditions

State of XY2AU● contacts



X	
XY2AU1	5
XY2AU2	5
XY2AZ1	5
XY2AZ2	5
XY2AZ3	5



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Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier
F-92500 Rueil-Malmaison
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