

Operating principle

Enabling switches, comprising an XY2 AU grip and an XPS VC monitoring module, allow authorised personnel to undertake adjustment, programming or maintenance operations near machine equipment hazardous zones, providing certain conditions are met.

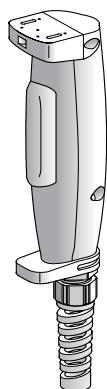
In effect, to gain access, these operations, often performed at reduced speed, must be selected by authorised personnel using selectors, with or without keys. Once selection is made, the enabling switch temporarily assumes control of the hazardous zone's usual protection measures. Important note: the 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
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 $U_e = 250\text{ V}$, $I_e = 1.5\text{ A}$ or $U_e = 125\text{ V}$, $I_e = 0.75\text{ A}$ --- DC-13 : R300 or $U_e = 250\text{ V}$, $I_e = 0.1\text{ A}$ or $U_e = 125\text{ V}$, $I_e = 0.22\text{ A}$ conforming to IEC 60947-5-1 Appendix A
Thermal current (I _{the})	A		5
Rated insulation voltage (U _i)	V		250, degree of pollution III (II inside) conforming to IEC 60947-1 125, contact 7-8
Rated impulse withstand voltage (U _{imp})	kV		2.5 conforming to EN 60947-1
Positive operation			2 3-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



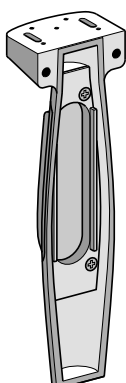
XY2 AU1



XY2 AZ1



XY2 AZ2



XY2 AZ3

References

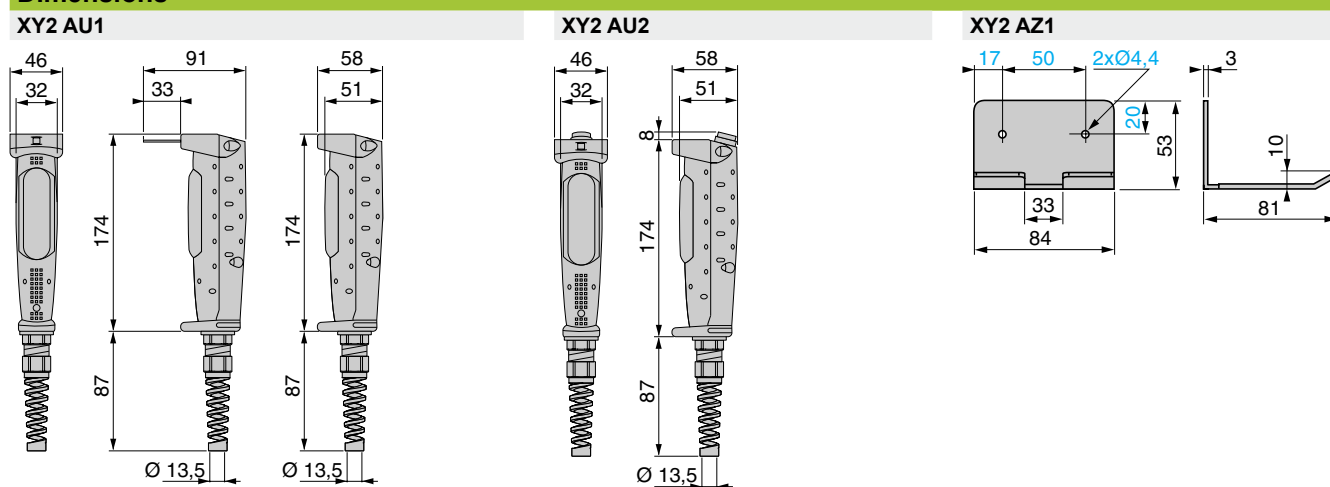
Number of contacts	Contact type	Contact blocks and scheme	Reference	Weight kg
3	2 enabling 3 positions + 1 N/C		XY2 AU1	0.310
	2 enabling 3 positions + 1 N/C + 1 N/O supplementary contact		XY2 AU2	0.320

Separate components and spare parts

Description	Reference	Weight kg
Grip support	XY2 AZ1	0.215
Cover kit for key actuator XCS Z01 or XCS Z11 only applicable to XY2 AU1	XY2 AZ2	0.015
Cover	XY2 AZ3	0.060

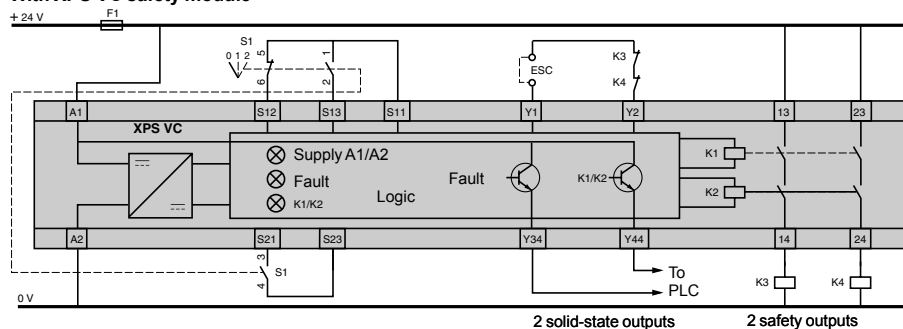
4

Dimensions



Connection example

With XPS VC safety module



ESC : external start conditions

State of XY2 AU1 contacts

