

Control stations and enclosures

Double insulated control stations, for control circuits
Stations for customer assembly

Characteristics :
page 5/254
Dimensions :
page 5/263

References

Empty enclosures

Description	Number of ways	Reference	Weight kg
Light grey lid, dark grey base	1	XAL-B01	0.095
	2	XAL-B02	0.115
	3	XAL-B03	0.140
	4	XAL-B04	0.155
	5	XAL-B05	0.180
Yellow lid, grey base	1	XAL-J01	0.095

Contact blocks (sold in lots of 10)

Description	Scheme	Function	Unit reference	Weight kg
Slow break		N/O	XEN-L1111	0.013
		N/C	XEN-L1121	0.013

Pilot light bodies

Description	Scheme	Supply voltage	Reference	Weight kg
Direct supply bulb not included (1)		≤ 400 V	XAL-V6	0.020
Direct through resistor BA 9s base fitting 130 V bulb included		230-240 V	XAL-V7	0.025

Illuminated pushbutton bodies (N/C + N/O)

Direct supply bulb not included (1)		≤ 400 V	XAL-W6	0.020
Direct through resistor BA 9s base fitting 130 V bulb included		230-240 V	XAL-W7	0.025

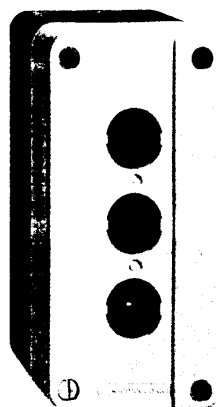
(1) Bulb types for use with direct supply units : incandescent BA 9s base fitting $U \leq 130$ V, maximum power 2.6 W.
Neon bulb with special red, yellow or clear lens, $110 \text{ V} \leq U \leq 380$ V, maximum $\varnothing$ 11 mm, maximum length 28 mm.

Bulbs (sold in lots of 10)

Description		Supply voltage	Unit reference	Weight kg
Incandescent bulbs	BA 9s base fitting	6 V	DL1-CB006	0.002
		12 V	DL1-CE012	0.002
		24 V	DL1-CE024	0.002
		48 V	DL1-CE048	0.002
		130 V	DL1-CE130	0.002
Neon bulbs	BA 9s base fitting	110 V	DL1-CF110	0.002
		220-240 V	DL1-CF230	0.002
		380 V	DL1-CF400	0.002

Other versions

Empty polyamide enclosures for difficult environments.
Pilot light and illuminated pushbutton bodies with integral transformer for 24...600 V with 6 V bulb.
LED bulbs.



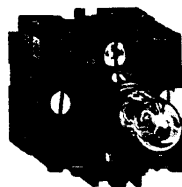
XAL-B03



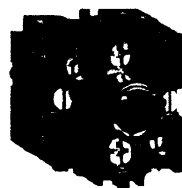
XEN-L1111



XAL-V6



XAL-V7



XAL-W6



DL1-C0006

Control stations and enclosures

Double insulated control stations, for control circuits

Characteristics

References :
pages 5/255 to 5/262
Dimensions :
page 5/263

Environment

Conforming to standards	IEC 947-5-1, EN 60 947-5-1, IEC 337-1, NF C 63-140, VDE 0660-200
Approvals	Standard version : DEMKO, NEMKO, SÄHKÖTARKASTUSKESKUS, ASE Special version : CSA, UL
Protective treatment	Standard version : "TC" and "TH"
Ambient air temperature	Operation : - 25...+ 70 °C. Storage : - 40...+ 70 °C
Vibration resistance	15 g (40...500 Hz) conforming to IEC 68-2-6
Shock resistance	Pushbuttons : 70 g, mushroom head pushbuttons : 15 g, selector switches : 200 g conforming to IEC 68-2-27
Electric shock protection	Class II conforming to IEC 536 and NF C 20-030
Degree of protection	IP 65 conforming to IEC 529 and IP 657 conforming to NF C 20-010
Mechanical durability	Spring return pushbuttons : 3 million operating cycles Latching pushbuttons : 300,000 operating cycles
Flame resistance	NF C 20-455 : 960 °C, UL 94 : V0
Material and colours	XAL-B : polycarbonate, grey RAL 7035 and grey RAL 7021. XAL-J : polycarbonate, yellow RAL 1012 and grey RAL 7021
Cable entries	'Knock-out' cable entries or tapped cable entries for addition of cable glands (see dimensions, page 5/263)

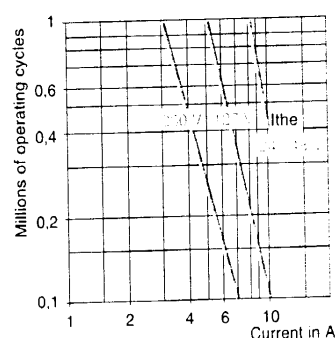
Contact block characteristics

Rated operational characteristics	~ AC-15 : A600 or $U_e = 240$ V and $I_e = 3$ A = DC-13 : Q600 or $U_e = 250$ V and $I_e = 0.27$ A conforming to IEC 947-5-1 Appendix A
Rated insulation voltage	$U_i = 500$ V, degree of pollution 3 conforming to IEC 947-1. $U_i = 600$ V conforming to UL 508 and CSA C22-2 n° 14
Rated impulse withstand voltage	$U_{imp} = 6$ kV conforming to IEC 947-1
Contact operation	Slow break (N/C or N/O)
Positive operation	Safety units ("Emergency stop" mushroom head pushbuttons) : N/C contact with positive opening operation conforming to IEC 947-5-1 Section 3
Operating force	Flush and projecting pushbuttons - with 1 N/O contact : 1 daN - with 1 N/C contact : 0.8 daN Additional contacts - N/O : + 0.5 daN - N/C : + 0.3 daN
Terminal referencing	Conforming to CENELEC EN 50013
Short-circuit protection	10 A cartridge fuse type gl conforming to IEC 269-1, VDE 0660-200

Rated operational power

Conforming to IEC 947-5-1 Appendix C. Utilisation categories AC-15 and DC-13. Operating rate : 3600 op. cycles/hour.
Load factor : 0.5

a.c. supply ~ 50-60 Hz
Inductive circuit



d.c. supply =
Power broken in W
for 1 million operating cycles

Voltage V	24	48	120
W	65	48	40

Electrical reliability

Failure rate < 1 fault for 100 million operating cycles (programmable controller inputs, 24 V d.c.)

175 -449

