

Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations — Specifications

XAC pendant stations are designed for standard or medium duty control circuit applications. The enclosures are made from rugged, double insulated thermoplastic material. These stations have been designed for easy handling and operation, even with heavy work gloves.

Two styles of stations are offered; “small hoist” pistol grip stations with integral parts (see page 199), and “general purpose” station components with modular assembly required. The general purpose components are available as custom factory assembled stations. For custom applications, a wide range of operators, contact blocks, legend plates and accessories are offered.



XACA08
(Shown with optional operators and accessories)




Features

- 1 and 2 speed versions
- Double insulated
- Shock and corrosion resistant
- 2, 4, 6, 8, 12 element versions
- Ease of operation

Applications

- Overhead cranes
- Tower cranes
- Fixed hoists
- Beam hoists

Specifications

Electrical ratings	NEMA / UL A600, Q600
Enclosure	XACAO* NEMA / UL Type 4, 4X (Indoor/Outdoor), 5 IP 65
	XACAO* (Pistol grip) NEMA / UL Type 4, 4X (Indoor), 5 IP 65
Operating temperatures	-15 °C to +70 °C -5 °F to +158 °F
Housing	Yellow polypropylene
Storage temperatures	-40 °C to +70 °C -40 °F to +158 °F
Shock resistance	100 g
Vibration resistance	15 g for f = 40 to 500 Hz
Mechanical life	1 million operations (The product life expressed is based on average usage and normal operating conditions. Actual operating life will vary with conditions. The above statements are not intended to nor shall they create any express or implied warranties as to product operation or life. For information on the limited warranty offered on this product, please refer to Square D terms and conditions of sale found in the Square D Digest.)
Operating force	XACA Multi-element types -with contact ZB2BE: 1 daN (36 oz.) for 1N.O., 1.3 daN (46.8 oz.) for 1N.O./1N.C. -with contact XENG1491: 1.4 daN (50.4 oz.) for 1N.C./2N.O. -with contact XENG1191: 1.4 daN (50.4 oz.) for 1st step, 2.5 daN (89.9 oz.) for 2nd step
Cable entry	XACD - 7 to 18 mm All other models - 8 to 26 mm
Cabling	Screw and captive cable clamp terminals. Recommended torque 15.62 in lbs. Capacity: minimum 1 x 0.5 mm ² (20 AWG) solid or stranded, maximum with or without cable end: 2 x 1.5 mm ² (16 AWG) or 1 x 2.5 mm ² (14 AWG) or by cable quick connector conforming to NF C 20-20 (on request).
Approvals	 File E164353 CCN NKCR
	 File LR 44087 Class 3211 03
	 Marking



Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations — Standard Duty



XACA2013



XACA06



XACA03
(Shown with optional operator)



ZB2BE10



XENG37



XENG1191



XACS10

Pistol grip stations

Description	Speeds	Function 1 Speed / 2 Speed	Catalog Number
1 N.O. contact per operator 2 Mechanically interlocked operators	1	↕	XACA201▲
2 N.O. (staggered) contacts per operator 2 Mechanically interlocked operators	2	↕↕	XACA207▲
1 N.O. + 1 N.C. 2 Mechanically interlocked operators	1	↕	XACA205▲
1 N.O. contact per direction 1 Mechanically interlocked 2 way toggle	1	↕	XACD21A0101
1 N.O. + N.O. staggered 1 Mechanically interlocked 2 way toggle	2	↕↕	XACD21A1231
1 N.O. & 1 N.C. contact per direction 1 Mechanically interlocked 2 way toggle	1	↕	XACD21A0105
1 N.C. + 1 N.O. + 1 N.O. staggered 1 Mechanically interlocked 2 way toggle	2	↕↕	XACD21A1241

▲ These XAC units are available with factory installed E-stops. Add a "3" to the end of the catalog number for standard E-stop or add a "4" for a "Trigger Action" E-stop.

General purpose pendants*

Enclosures	Catalog Number
2 hole enclosure	XACA02
3 hole enclosure	XACA03
4 hole enclosure	XACA04
6 hole enclosure	XACA06
8 hole enclosure	XACA08
12 hole enclosure	XACA12

* Standard enclosures include internal mounting plate, cable sleeve for 8 to 26 mm, internal cable clamp, suspension ring and cable tie.

Contact Blocks For Operators In Cover

Description	Wiring Diagram	Catalog Number
1 N.O./spring return/1 speed	—	ZB2BE101
1 N.C./spring return/1 speed	—	ZB2BE102
1 N.O. early close & 1N.C.&1N.O./spring return/2 speed	Fig. 1	XENG1191
1 N.C. & 2 N.O./spring return/1 speed	Fig. 2	XENG1491
1 N.O. & 1 N.O. latching/1 speed/interlocked	Fig. 3	XENG3781
1 N.O. & 1 N.C. latching/1 speed/interlocked	Fig. 4	XENG3791

For operators in base of enclosure†

1 N.O./1 speed	XACS101
1 N.C./1 speed	XACS102
2 N.O./1 speed	XACS103
2 N.C./1 speed	XACS104
1 N.O. & 1 N.C./1 speed	XACS105

† Cannot be used with XACA03 pendant.

Wiring diagrams

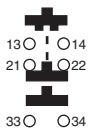


Fig. 1

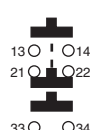


Fig. 2



Fig. 3

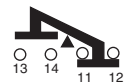


Fig. 4

Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations — Contact Blocks



Booted push button



Mushroom head



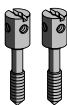
Selector switch



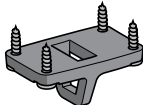
Selector switch (key operated)



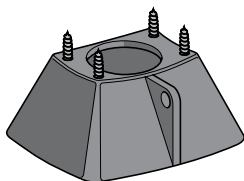
Wobble stick



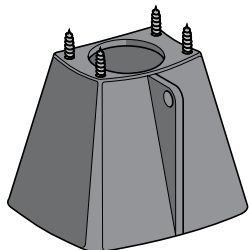
XACB961



XACA971



XACA982



XACA983

Operators▲

Description	Color	Catalog Number	
Booted push button	White	XACA9411	
	Black	XACA9412	
	Green	XACA9413	
	Red	XACA9414	
	Yellow	XACA9415	
	Blue	XACA9416	
	Brown	XACA9419	
Description	Mushroom Size	Color	Catalog Number
Mushroom head, momentary	30 mm	Black	ZA2BC24
		Red	ZA2BC44
Mushroom head, momentary	40 mm	Black	ZA2BC2
		Red	ZA2BC4
Mushroom head, push to maintain/turn to release	30 mm	Red	ZA2BS44
		40 mm	Red
Mushroom head, push to maintain/turn to release (trigger action)*	30 mm	Red	ZA2BS834
		40 mm	Red
Mushroom head, push to maintain/key turn to release	30 mm	Red	ZA2BS74
		40 mm	Red
Mushroom head, push to maintain/key turn to release (trigger action)*	40 mm	Red	ZA2BS844
Description	Color	Catalog Number	
Selector switch/2 position - maintained**	Black	ZA2BD2	
Selector switch/3 position - maintained**	Black	ZA2BD3	
Selector switch/2 position - maintained key operated - key removal from left or right position**	NA	ZA2BG4	
Selector switch/3 position - maintained key operated - key removal from left or right position**	NA	ZA2BG5	
Wobble stick (bottom mounting recommended)	Black	ZA2BB2	
	Red	ZA2BB4	

Pilot light components

Description	Color	Catalog Number
Direct supply base/without lamp (for 6 to 120 V applications) (AC/DC)		ZB2BV006
Resistor supply base/with 130 V lamp (for 220-240 V applications) (AC/DC)		ZB2BV007
Pilot light operators for incandescent lamps	Green	ZA2BV03
	Red	ZA2BV04
	Amber	ZA2BV05
	Blue	ZA2BV06
	Clear	ZA2BV07
Pilot light operators for LED lamps	Green	ZA2BV033
	Red	ZA2BV043
	Amber	ZA2BV053

▲ Booted push buttons are for cover mounting only. All other operators can be mounted on cover or bottom.

* Trigger action mushroom heads are "tamper proof" whereby a change of contact state is not possible by "teasing" or floating the operator.

** Not for use with XEN G contact blocks.

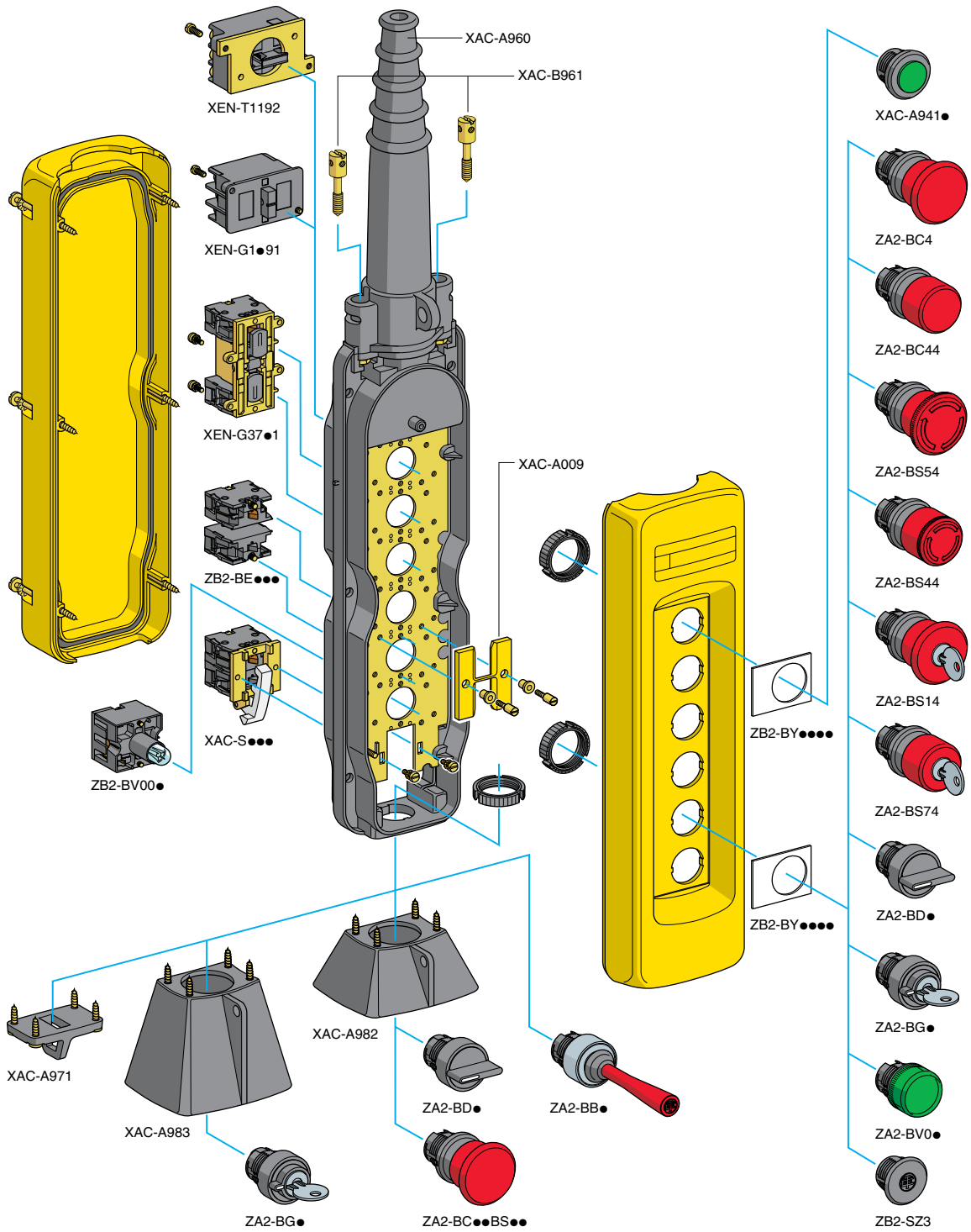
Enclosure Accessories

Description	Catalog Number
Blank hole plug	ZB2SZ3
Mechanical interlock (momentary). For use with XAC booted operators only	XACA009
Adapter for self-supporting cable	XACB961
Low suspension ring for single row station	XACA971
Protective guard for bottom mounted mushroom head	XACA982
Protective guard for bottom mounted selector switch or key switch	XACA983
Cable sleeve (XACA20●)	XACA913
Cable sleeve (XACA●●)	XACA960

Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations

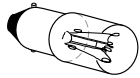
Exploded Drawing



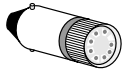
30075-16

Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations — Lamps and Legend Plates



DL1CE0
(Incandescent)**



DL1CJUS**
(LED)**

Lamps

Type	Voltage (AC/DC)	Watts	Catalog Number
Replacement bulbs (Type BA9s) Incandescent	6	1.2	DL1CB006
	12	2.0	DL1CE012
	24	2.0	DL1CE024
	48	2.4	DL1 CE048
	130	2.6	DL1CE130
Neon (use with direct supply light module)	120	-	NE51HRT120V
	220	-	NE51HRT220V
	380	-	NE51HRT380V

Type	Color	Voltage	Part Number
LED, BA9s base for Direct Supply blocks	Green	6 volt ac/dc	DL1CJUS0063
	Red	6 volt ac/dc	DL1CJUS0064
	Amber	6 volt ac/dc	DL1CJUS0065
	Green	12 volt ac/dc	DL1CJUS0123
	Red	12 volt ac/dc	DL1CJUS0124
	Amber	12 volt ac/dc	DL1CJUS0125
	Green	24 volt ac/dc	DL1CJUS0243
	Red	24 volt ac/dc	DL1CJUS0244
	Amber	24 volt ac/dc	DL1CJUS0245
	Green	120 volt ac/dc	DL1CJUS1203
	Red	120 volt ac/dc	DL1CJUS1204
	Amber	120 volt ac/dc	DL1CJUS1205

PVC Standard legend plates 30 x 40mm

Text ★	Catalog number
Bridge Forward	ZB2BY2343
Bridge Reverse	ZB2BY2344
Close	ZB2BY2314
Down	ZB2BY2308
Emergency Stop	ZB2BY2330
Fast	ZB2BY2328
Forward	ZB2BY2305
For Rev	ZB2BY23
For-O-Rev	ZB2BY2384
Hand Off Auto	ZB2BY2387
High	ZB2BY2338
High Low	ZB2BY2369
Hoist Down	ZB2BY2342
Hoist Up	ZB2BY2341
In	ZB2BY2503
Inch	ZB2BY2321
Jog For	ZB2BY2381
Jog Rev	ZB2BY2380
Jog Run	ZB2BY2365
Left	ZB2BY2310
Low	ZB2BY2336
Lower	ZB2BY2337
Man Auto	ZB2BY2372

Text ★	Catalog Number
Off	ZB2BY2312
On	ZB2BY2311
Off On	ZB2BY2367
Open	ZB2BY2313
Open Close	ZB2BY2376
Open-O-Close	ZB2BY2388
Out	ZB2BY2339
Power On	ZB2BY2326
Raise	ZB2BY2335
Reset	ZB2BY2323
Reverse	ZB2BY2306
Right	ZB2BY2309
Run	ZB2BY2334
Slow	ZB2BY2327
Start	ZB2BY2303
Stop	ZB2BY2304
Stop Start	ZB2BY2366
Trolley Right	ZB2BY2345
Trolley Left	ZB2BY2346
Up	ZB2BY2307
Up Down	ZB2BY2370
Up-O-Down	ZB2BY2389



★ All nameplates are black w/white lettering except "Stop", "Emergency Stop" and "Reset" which are red w/white lettering.
For black "Reset" change final digit of catalog number to 2.

Type	Description	Catalog Number
PVC blank legend	Blank	Black or red background-30 mm x 40 mm
	Blank	Yellow or white background-30 mm x 40 mm
PVC custom engraved	Special engraving †	Black background, white letters-30 mm x 40 mm
	Special engraving †	Red background, white letters-30 mm x 40 mm
	Special engraving †	White background, black letters-30 mm x 40 mm
	Special engraving †	Yellow background, black letters-30 mm x 40 mm

† Please specify lettering when ordering. Two lines with 11 characters (including spaces) maximum on each line.

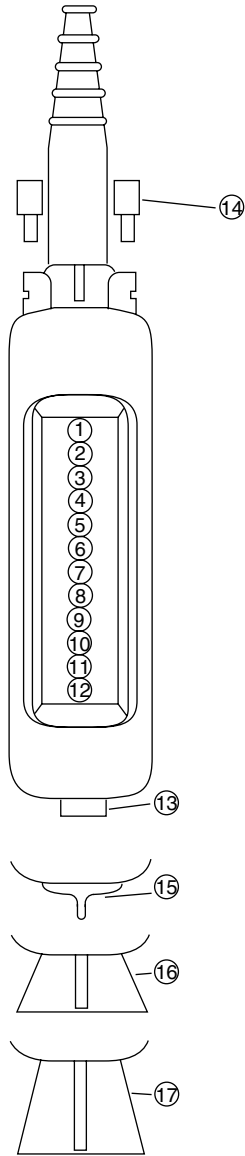
Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations — Lamps and Legend Plates

XACA Order guide instructions

Custom built pendant stations

- The first step in putting together your pendant station is to determine the number of operators that you require. This enables you to choose the enclosure based on the number of holes needed.
- Select the type of operator, contact block and appropriate nameplate for each function required from pages 199-202. Enter the components for each function on the order form below.
- Check for special functions that may be required. These items could include mechanical interlocks, adapters for self-supporting cable, lower support rings, protective guards etc.



TO BE COMPLETED BY SQUARE D

Name		Branch/Sales office	
Date	Order No.	Delivery date	

TO BE COMPLETED BY CUSTOMER

Firm		Sheet No.	
Date	Cust. Order No.	Delivery date	

No. of identical units required Unit reference of enclosure **XACA**

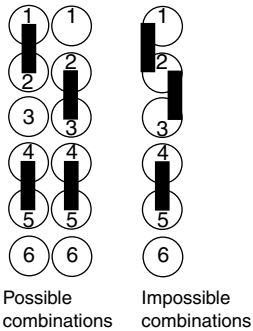
Functions (optional)	Mechanical interlock (draw a line between the 2 units to be interlocked★)	Legends	Contact blocks and pilot light bodies	push button pilot light or blanking plug
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			

★ Mechanical interlock XACA009 Number of XAC A009 required

Unit mounted in base of station (facing downwards)

	13			
--	----	--	--	--

* Mechanical interlock



Attachments

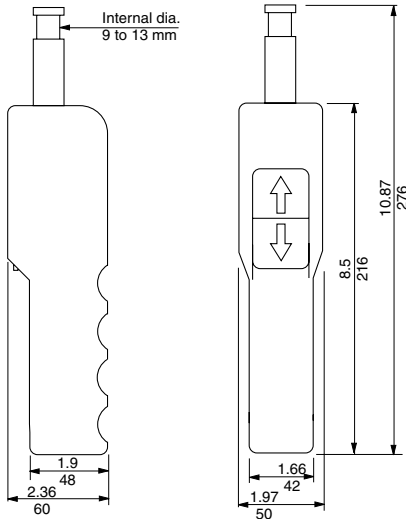
	Position	Type	Catalog No.
Cross the appropriate box if required	14	Adapters for self supporting cable type BBAP (only available with 8 to 26 mm dia. cable sleeve)	XACB961
	15	Lower support ring	XACA971
	16	Protective guard for base mounted selector switch or 40 mm emergency stop push button	XACA982
	17	Protective guard for key switch	XACA983

Photocopy this form and complete all information.

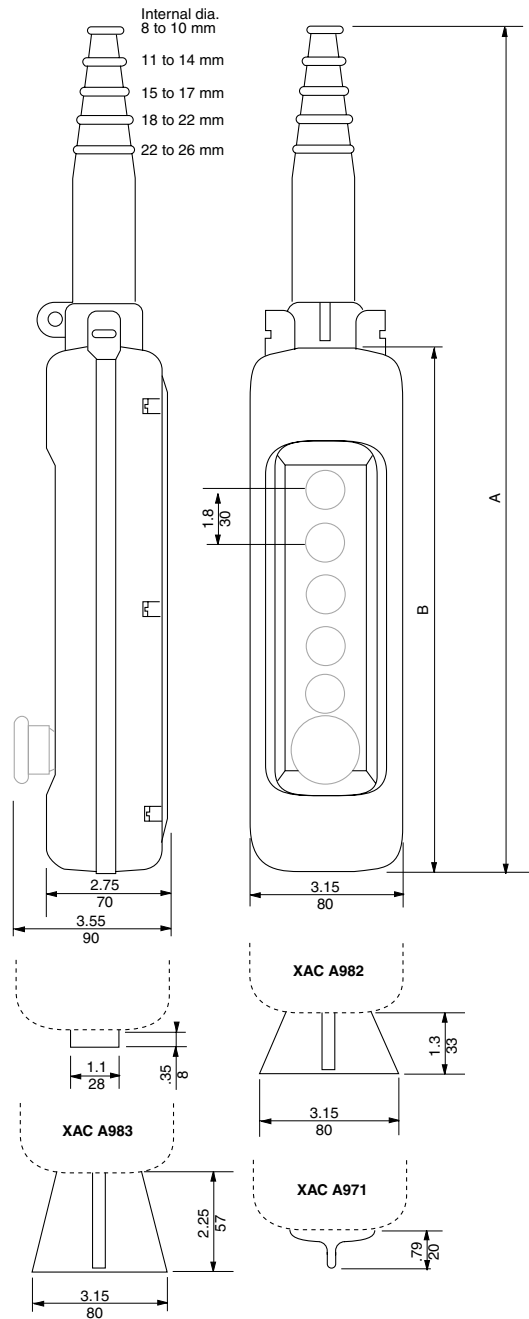
Push Button and Operator Interface - Type BW, SKYP & XACA Pendant Stations

Type XACA Pendant Stations — Dimensions

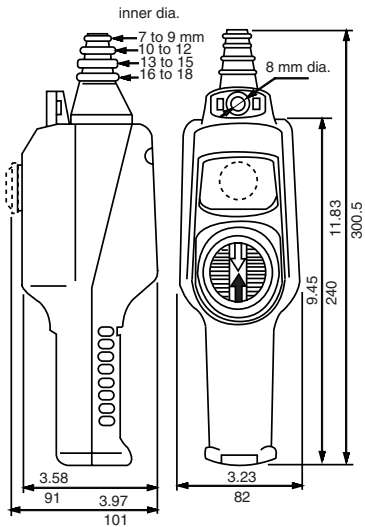
Small hoist type
XACA201 and A205



General purpose type
XACA●●●●



Small hoist
XACD



No. of Holes IN/mm	2		3		4		6		8		12	
	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm
A	15.00	380	15.00	380	17.33	440	19.70	500	22.10	560	26.78	680
B	7.50	190	7.50	190	9.85	250	12.20	310	14.57	370	19.30	490