

Harmony® Ø 22

Control & Signalling Units



Harmony® Ø 22 Control & Signalling Units

XB5-A Pushbuttons, Switches with double insulated bezel and XB7-EV Pilot lights

Push buttons, spring return with 1 contact



- 11 : ○ 1N/O
- 21 : ●
- 31 : ●
- 41 : ●
- 51 : ●
- 61 : ●
- 01 : blank
-
- 42 : ● 1N/C



- 11 : ○ 1N/O
- 21 : ●
- 31 : ●
- 41 : ●
- 51 : ●
- 61 : ●
-
- 42 : ● 1N/C



- 21 : ● 1N/O
- 31 : ●
- 41 : ●
- 51 : ●
- 61 : ●
-
- 42 : ● 1N/C



Flush

XB5-AA••N complete head:LP: 85
blank head:LP:80

Projecting

XB5-AL••N LP: 95

Flush with silicon boot

XB5-AP••N LP: 110

Flush Marker

XB5-AA••••N

Illuminated Push buttons with ^{Protected}LED



- 1*1 : ○ 1N/O
- 3*1 : ●
- 5*1 : ●
- 8*1 : ●
- 6*1 : ●
- 7*1 : ○
-
- 4*2 : ● 1N/C

* ≈ 24 V : B
~ 110 V : G
~ 220 V : M



- 1*1 : ○ 1N/O
- 3*1 : ●
- 5*1 : ●
- 8*1 : ●
- 6*1 : ●
- 7*1 : ○
-
- 4*2 : ● 1N/C

* ≈ 24 V : B
~ 220 V : M



- 1*1 : ○ 1N/O
- 3*1 : ●
- 5*1 : ●
- 8*1 : ●
- 6*1 : ●
- 7*1 : ○
-
- 4*2 : ● 1N/C

* ≈ 24 V : B
~ 220 V : M

Flush, spring return

XB5-AW3••••N all colours w/o blue:LP:235
blue:LP:475

Projecting, spring return

XB5-AW1••••N all colours w/o blue:LP:235
blue:LP:475

Push Push

XB5-AH3••••N all colours w/o blue:LP:315
blue:LP:475

Mushroom Head Push buttons



- *21 : ● 1 N/O
- *31 : ●
- *41 : ●
- *51 : ●
- *61 : ●
-
- *42 : ● 1 N/C

* 40ØC
60ØR



- *22 : ● 1 N/C
- *42 : ● 1 N/C

* 30Ø4
40Ø5
60Ø6



- *22 : ● 1 N/C
- *42 : ● 1 N/C

* 40Ø1
60Ø2



40Ø

Spring Return

XB5-A••••N XB5-AC:LP:120
XB5-AR:LP:160

Turn to Release

XB5-AS••••N XB5-AS4/5:LP:150
XB5-AS6:LP:205











Key Release

XB5-AS••••N LP: 255

Trigger

XB5-AS

Note : To complete the ordering reference, replace • and * by the corresponding values
: Minimum lot size for products: 20 Nos.
: Prices are inclusive of excise duty and are subject to change without notice.
: List Price (LP) is in Indian Rupee.


 1 N/O, 3311	 1 N/C, 4322		 1 N/C, 42	 1N/O + 1N/C
 3331	 4342		 1 N/C, 52	
 3411	 4352			



LP: 100

Projecting, marked
XB5-AL43**N LP: 100


Double Headed
XB5-AL845N LP: 195

Illuminated Push buttons for BA 9's bulb

 1N/O + 1N/C


* \approx 24 V : B
~ 220 V : M



** 1*1 : \circ 1N/O
3*1 : \bullet
5*1 : \bullet
8*1 : \bullet
6*1 : \bullet
7*1 : \circ

4*2 : \bullet 1N/C

* \leq \approx 130 V : 6
(without resistance bulb not included)
~ 230 V : 7
(with resistance bulb included)



** 1*1 : \circ 1N/O
3*1 : \bullet
5*1 : \bullet
8*1 : \bullet
6*1 : \bullet
7*1 : \circ

4*2 : \bullet 1N/C

* \leq \approx 130 V : 6
(without resistance bulb not included)
~ 230 V : 7
(with resistance bulb included)



* \approx 24 V : B
~ 220 V : M


Double Headed spring return
XB5-AW84*5N LP: 280

Flush, spring return
XB5-AW3**N XB5-AW3*6:LP:155
XB5-AW3*7:LP:170


Flush, spring return
XB5-AW3**N XB5-AW3*6:LP:155
XB5-AW3*7:LP:170

2 stay put, ∇
XB5-AK12**N all colours w

Selector Switches (refer table for switch positions)

 1 N/O + 1 N/C

Action Turn to Release
8445N LP: 350

 1 N/O + 1 N/C

40 \emptyset

Trigger Action Key Release
XB5-AS9445N LP: 350

 1 N/O

* ∇ : 2
 ∇ : 4

2 position normal handle
XB5-AD*1N LP: 185

 2 N/O

* ∇ : 3
 ∇ : 5
 ∇ : 7
 ∇ : 8

3 position normal handle
XB5-AD*3N XB5-AD3:LP:225
XB5-AD5/7/8:LP:235

Spot Lights Protected[®] LED



130 V : 6
(without resistance bulb not included)
230 V : 7
(with resistance bulb included)

- *● *1 : ○
- *3 : ●
- *4 : ●
- *5 : ●
- *8 : ●
- *6 : ●
- *7 : ○



*≈ 24 V : B
~ 120 V : G
~ 230 V : M

- *● *1 : ○
- *3 : ●
- *4 : ●
- *5 : ●
- *8 : ●
- *6 : ●
- *7 : ○



- *1 : ○
- *3 : ●
- *4 : ●
- *5 : ●
- *8 : ●
- *6 : ●
- *9 : 6 colours set
○●●●●●



Spot for BA 9's bulbs

EV**PN XB7-EV6*PN : LP:75
XB7-EV7*PN : LP: 95

With Integral LED

XB7-EV0**PN all colours w/o blue:LP: 130
blue:LP: 415

Flush-Unmarked

ZBA--N single colour:LP:12
set of 6 colours:LP:30

Projecting-Ur

ZBL--N

Actors Switches (refer table for switch positions)

Protected[®] LED

- 1*1 : ○ 1N/O
- 3*1 : ●
- 5*1 : ●
- 6*1 : ●
-
- 4*2 : ● 1N/C



*≈ 24 V : B
~ 220 V : M

- 1*1 : ○ 1N/O
- 3*1 : ●
- 5*1 : ●
- 6*1 : ●
-
- 4*2 : ● 1N/C



*≈ 24 V : B
~ 220 V : M

- 1*1 : ○ 2N/O
- 3*1 : ●
- 5*1 : ●
- 6*1 : ●
-
- 4*2 : ● 1N/O+1N/C



*≈ 24 V : B
~ 220 V : M

no blue:LP:290
blue:LP:575

2 position spring return from right to left, ▽

XB5-AK14**N all colours w/o blue:LP:290
blue:LP:575

3 Stay put, ▽

XB5-AK13**N all colours w/o blue:LP:345
blue:LP:630

3 position spring return

XB5-AK15**N all c

Key Switches

Key Switches (refer table for switch positions)



▽ : 2



- * ▽ : 3
- ▽ : 5



- * ▽ : 2
- ▽ : 02
- ▽ : 4
- ▽ : 6



- * ▽ : 5
- ▽ : 0
- ▽ : 3
- ▽ : 7
- ▽ : 1
- ▽ : 08

2 position long handle

AJ21N LP: 185

3 position long handle

XB5-AJ*3N XB5-AJ3:LP:225
XB5-AJ5:LP:235

Key Switch 2 position

XB5-AG*1N LP: 225

Key Switch 3 position

XB5-AG*3N

with blank head XB5-AA01N)

- *1 : ○
- *3 : ●
- *4 : ●
- *5 : ●
- *8 : ●
- *6 : ●
- *9 : 6 colours set
○●●●●●



Type of cap	Text	Colour of text	Colour of cap	Reference
Projecting	STOP	White	Red	L-434
Flush		White	Green	A-331
	START	White	Green	A-333
	ON	White	Green	A-341
	STOP	White	Red	A-434
	UP	Black	White	A-343
	DOWN	White	Black	A-344
	OFF	White	Red	A-434

Integral LED Blocks



* \approx 24 V : B
 \sim 110 V : G
 \sim 220 V : M

- *1 : ○
- *3 : ●
- *4 : ●
- *5 : ●
- *8 : ●
- *6 : ●

Marked

single colour:LP:25
 set of 6 colours:LP:30

Flush/Projecting-Marked

ZB-***N LP: 30

Integral LED Block

ZBV-**SN all colour without blue LP: 135
 blue LP: 385

Illuminated Mushroom Head

- **1*1 : ○ 2N/O
- 3*1 : ●
- 5*1 : ●
- 6*1 : ●
- 4*2 : ● 1N/O+1N/C



1N/C

40 \varnothing
 * \approx 24 V : B
 \sim 220 V : M

Colour Code

- White
- Green
- Red
- Yellow
- Amber
- Blue
- Clear

Turn to center,

colours w/o blue:LP:350
 blue:LP:630

Turn to release

XB5-AW74*2N LP: 305

N/O

LP: 275

Sr. No.	Symbolic representations	Number & Type of Position	No. of Contacts
1	∨	2 stay put	(1 N/O Contact)
2	∇	2 spring return from right to left	(1 N/O Contact)
3	∇	3 stay put	(2 N/O Contact)
4	∇	3 spring return to center	(2 N/O Contact)
5	∇	3 spring return from left to center	(2 N/O Contact)
6	∇	3 spring return from right to center	(2 N/O Contact)
7	∨	2 stay put	(1 N/O Contact)
8	∨	2 stay put	(1 N/O Contact)
9	∨	2 stay put	(1 N/O Contact)
10	∇	2 spring return from right to left	(1 N/O Contact)
11	∇	3 stay put	(2 N/O Contact)
12	∇	3 stay put	(2 N/O Contact)
13	∇	3 stay put	(2 N/O Contact)
14	∇	3 spring return to center	(2 N/O Contact)
15	∇	3 spring return from left to center	(2 N/O Contact)
16	∇	3 spring return from right to center	(2 N/O Contact)

The symbol indicates key withdrawal positions.

Accessories



ZBY-2101N



ZBY-9330N



ZB5-SZ3N



ZB5-AZ902N



ZB5-AZ905N



ZB5-AZ009N



DL1CE024N



ZBP-AN



ZBE-101N

Description	Legend Colour	Marking	Reference	List Price
White blank Legend (for engraving)	Black / Red background	Blank	ZBY-2101N	15
	White/ Yellow background	Blank	ZBY-4101N	
With 8 x 27mm English language marked legend	Black or Red Background	Auto	ZBY-2315N	
		Close	ZBY-2314N	
		Down	ZBY-2308N	
		Fast	ZBY-2328N	
		Forward	ZBY-2305N	
		Hand	ZBY-2316N	
		Inch	ZBY-2321N	
		Left	ZBY-2310N	
		Off	ZBY-2312N	
		On	ZBY-2326N	
		Open	ZBY-2313N	
		Reset	ZBY-2323N	
		Reverse	ZBY-2306N	
		Right	ZBY-2309N	
		Slow	ZBY-2327N	
Start	ZBY-2303N			
Up	ZBY-2307N			
Legends for emergency stop stop mushroom head push button	dia 60mm		ZBY-9330N	
	dia 90mm		ZBY-8330N	
Blank plug			ZB5-SZ3N	30
Anti rotation plate			ZB5-AZ902N	12
Fixing Nut			ZB5-AZ901N	
Tightening tool			ZB5-AZ905N	375
Fixing Collar			ZB5-AZ009N	50
Bulb BA 9S (base)	24V - 2W		DL1-CE024N	25
Bulb BA 9's V (base)	130V - 2.4 W		DL1-CE130N	
Boot for cylindrical flush PB			ZBP-AN	25
Boot for cylindrical projecting PB			ZBP-0N	
Boot for double head illuminated PB and non illuminated PB			ZBW-008N	
Light block for BA9's bulb, Direct w/o resistance			ZBV-6N	85

• Contact blocks with screw clamp terminal connections

Description	Type of contact		Reference	List Price
	N/O	N/C		
Standard Single Contact Blocks	1 -	- 1	ZBE-101N ZBE-102N	40

Characteristics

Environment			
Ambient air temperature Around the device	Storage	°C	- 40... + 70
	Operation	°C	- 25... + 70 unless otherwise stated
Degree of protection	Conforming to IEC 529		IP 54, unless otherwise stated IP 66, for booted pushbutton heads
Electric shock protection	Conforming to IEC 536		Class II, Double Insulation
Conformity to standards			IEC/EN 60947-5-1, IS 13947-5-1

Characteristics of contact blocks			
Mechanical characteristics			
Contact operation	N/C or N/O		Slow break (all function incorporating a N/C contact are positive operation)
Operating travel (to change electrical state)	Pushbutton	mm mm mm	Changing N/C state : 1.5 Changing N/O state : 2.6 Total travel : 4.3
Mechanical durability (in millions of operating cycles)	Pushbutton	Spring return	5
		Double-headed	1
		Push-push to release	0.5
	Selector switches	Non-illuminated	3
		Illuminated	1
	Emergency stop pushbutton		0.3
Vibration resistance	Conforming to IEC 68-2-6	gn	Frequency : 2 to 500 Hz : 5

Electrical Characteristics			
Cabling capacity	Conforming to IEC 947-1	mm ² mm ²	Screw clamp terminals Min : 1 x 0.22 without cable end (1 x 0.34 for linking) Max : 2 x 1.5 with cable end Cross headed screw (Pozidrive type 1 or Philips type 1") slotted for flat 4 and 5.5 mm screwdriver
Contact material	Silver alloy (Ag / Ni)		
Short-circuit protection	Conforming to IEC/EN 60947-5-1	A	10A gG cartridge fuse conforming to IEC 269-1
Nominal Thermal current	Conforming to IEC/EN 60947-5-1	A	10
Rated insulation voltage	Conforming to IEC 947-1	V	Ui = 600 degree of pollution 3
Rated impulse withstand voltage	Conforming to IEC 947-1	kV	Uimp = 6
Rated operational characteristics Conforming to IEC/EN 60947-5-1	a.c. supply : utilisation category AC-15		Ue = 240 V and Ie = 3 A
	d.c. supply : utilisation category DC-13		Ue = 125 V and Ie = 0.55 A
Electrical durability Conforming to IEC/EN 60947-5-1 Appendix C	a.c. supply for 1 million operating cycles, utilisation category AC-15	V	24 120 230
		A	4 3 2
Operating rate 3600 operating cycles/hour. Load factor : 0.5	d.c. supply for 1 million operating cycles, utilisation category DC-13	V	24 110
		A	0.5 0.2

Characteristics of XB7 LED Pilot lights and other LED functions			
Voltage limits	Nominal voltage	V	≈ 24V : ac : +/-10%
			: dc: 20 to 30 V
			~ 120 V (50 / 60 Hz) : 100 to 140 V
			~ 230 V (50 Hz) : 200 to 264 V
Current consumption	Applicable to all colours	mA	15 (all voltages)
Service life	At nominal voltage and at an ambient temperature of 30°C	H	100,000
Safety			In case of internal failure, the unit will not result in short-circuit of the supply source
Surge withstand	Conforming to IEC 61000-4-5	kV	1
Resistance to fast transients	Conforming to IEC 61000-4-4	kV	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	V/m	10
Rated impulse withstand voltage	Conforming to IEC 947-1	kV	Direct supply pilot light blocks (BA 9s bulbs) : Uimp = 4
		kV	Pilot light blocks with integral LED : Uimp = 4.8
Cabling capacity	Conforming to IEC 947-1	mm ²	Screw clamp terminals
		mm ²	Min : 1 x 0.22 without cable end (1 x 0.34 for linking) Max : 2 x 1.5 with cable end

Specific characteristics of XB7 and XB5 Bulb light functions			
Voltage limits		V	+/- 10% nominal supply voltage
Power		W	2.4 Max



For more information visit our website at: www.schneider-electric.co.in

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