

Product data sheet

Specifications



Panel mounted timer monofunction,
Harmony XB5, plastic, 22mm, time
delay 3...60s, 24V DC

XB5DTB23

Product availability: Non-Stock - Not normally stocked in
distribution facility

Main

Range of Product Harmony XB5

Product or Component Type Timer

Sale per indivisible quantity 1

Complementary

Bezel material Plastic

Fixing collar material Plastic

Mounting diameter 0.9 in (22 mm)

Panel Thickness 0.04...0.2 in (1...6 mm)

Shape of signaling unit head Round

Time delay range 3...60 s

Time delay type A

Repeat accuracy +/- 0.5 %

Setting accuracy of time delay +/- 10 % of full scale 77 °F (25 °C) IEC 61812-1

Temperature Drift +/- 0.05 %/°C

Voltage drift +/- 0.2 %/V

Protection Type Reverse polarity protection
Overvoltage protection

Pollution degree 3 IEC 60664-1

Output Type Open collector PNP

Temporary permissible current 10 A 0.01 s

minimum switching current 10 mA

Voltage drop in closed state 3 V

Nominal rating 200 mA at 68 °F (20 °C) (derating 1.5 mA per °C)

Residual current in open state 0.1 mA

Power Consumption in W 1 W

Reset time 5 ms after time delay on de-energisation
7 ms during time delay on de-energisation

Local signalling LED green, flashing timing in progress
LED, steady no timing in progress and output relay energised

[Us] rated supply voltage 24 V DC

Supply voltage limits 16.8...31.2 V DC

Output short-circuit protection Yes

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Connections - terminals	Screw terminals 1 x 4 mm ² IEC 60947-1 Screw terminals 1 x 2.5 mm ² IEC 60947-1
IP degree of protection	IP65 front: conforming to IEC 60529 IP20 back: conforming to IEC 60529
Ambient Air Temperature for Operation	-4...140 °F (-20...60 °C)
Ambient Air Temperature for Storage	-4...176 °F (-20...80 °C)
Tightening torque	4.4 lbf.in (0.5 N.m)
Dielectric strength	1500 V IEC 61812-1
[Ui] rated insulation voltage	50 V IEC 60947-1 50 V IEC 60664-1
[Ui_{imp}] rated impulse withstand voltage	4 kV IEC 60947-1 4 kV IEC 60664-1
Surge withstand	1 kV, level 2 IEC 61000-4-5
Overvoltage category	Class 3 conforming to IEC 60536 Class 3 conforming to IEC 60664-1
Vibration resistance	0.15 mm (f= 10...60 Hz) conforming to IEC 60068-2-6 2 gn (f= 60...150 Hz) conforming to IEC 60068-2-6
Shock resistance	+/- 15 gn 11 ms 6 shocks on each axis)IEC 60068-2-27
Resistance to fast transients	2 kV level 3 IEC 61000-4-4
Electromagnetic compatibility	Electrostatic discharge 6 kV level 3 conforming to IEC 61000-4-2 Electromagnetic emission class B conforming to IEC 55011
Resistance to electromagnetic fields	9.1 V/m (10 V/m) 80 MHz...1 GHz level 3 IEC 61000-4-3 2.7 V/m (3 V/m) 1.4...2 GHz level 2 IEC 61000-4-3 0.9 V/m (1 V/m) 2...2.7 GHz level 1 IEC 61000-4-3
Immunity to radioelectric fields	10 V level 3 IEC 61000-4-6
Disturbance radiated/conducted	Class B EN 50022
Standards	IEC 61812-1 UL 508
Product Certifications	UL Listed CE
Device presentation	Monolithic product
Height	2.4 in (62 mm)
Width	1.1 in (29 mm)
Depth	1.1 in (29 mm)
Product Weight	0.060 lb(US) (0.027 kg)
Diameter	1.1 in (29 mm)

Ordering and shipping details

Category	US10CS200028
Discount Schedule	0CS2
GTIN	3606481205476
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
-------------------------------	-----

Nbr. of units in pkg.	1
Package 1 Height	1.26 in (3.200 cm)
Package 1 Width	1.26 in (3.200 cm)
Package 1 Length	2.95 in (7.500 cm)
Package weight(Lbs)	0.952 oz (27.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	72
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	5.91 in (15.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	4.839 lb(US) (2.195 kg)



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

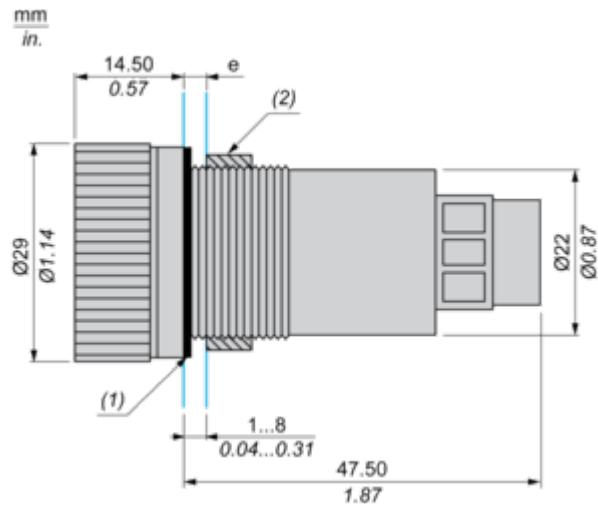
Use Again

Repack and remanufacture

Take-back	No
-----------	----

Dimensions Drawings

Dimensions



(e) Clamping thickness: 1 mm to 6 mm / 0.03 in. to 0.24 in.

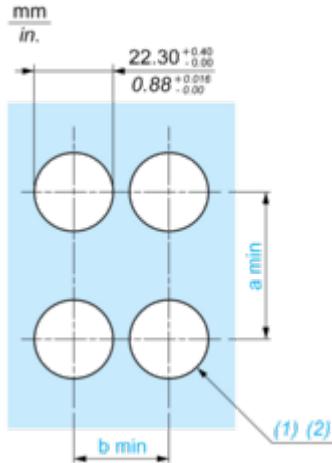
(1) Sealing ring

(2) Screw

Mounting and Clearance

Panel Cut-out for Analog Timer (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors

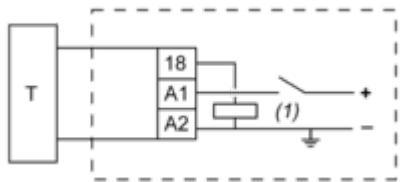


(1) Diameter on finished panel or support

(2) Ø22 mm recommended ($\varnothing 22.3\ 0+0.4$) / Ø0.89 in. recommended ($\varnothing 0.88\ in.\ 0^{+0.016}$)

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	50	1.97	30	1.18

Connections and Schema

Wiring Diagram

T : Timer

(1) Load

A1 - A2 : Supply (24VDC)

Technical Description

Function A : On Delay Timer**Description**

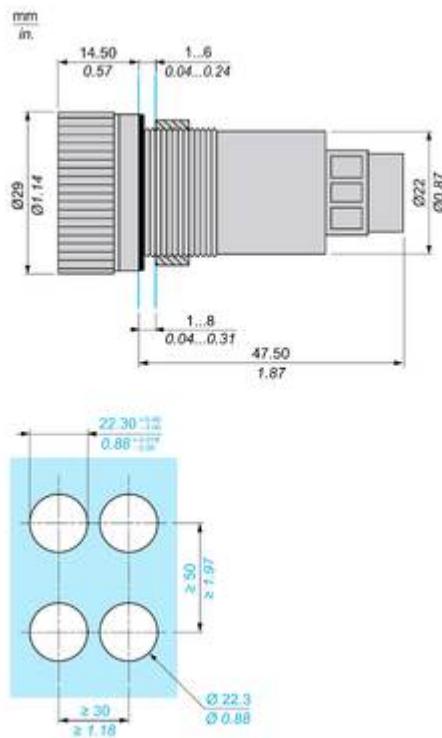
The timing period T begins on energisation with blinking LED indication. After timing, the output (18) closes and LED goes steady

Function: Output

-  De-energised
-  Energised
-  Output open
-  Output closed
- (18) Timed output
- (A1- A2) Supply

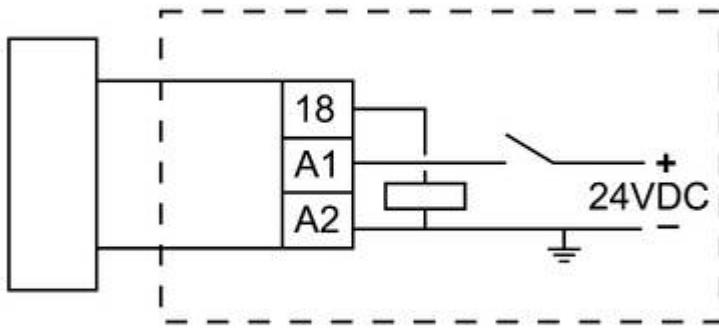
Technical Illustration

Dimensions



Technical Illustration

Wiring diagram



Offer Marketing Illustration

Product benefits / Features

Features

Harmony XB5



- Quick and easy assembly and disassembly**

- Excellent mechanical connection with operator head**

- Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board**

- Large set of accessories to customize your panels**

- Robustness to withstand harsh environments**


Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony XB5

Conformity with IEC, UL, CSA, CCC EAC, and JIS standards, as well as CE marking and marine approvals



Up to IP66, 67, 69, 69K, and type 4X protection ratings



High vibration resistance with shake-proof terminal screws

Operating temperature from -40°C to 70°C

Shock protection level up to IK06

Secure switching of inductive or heavy DC loads directly – 100 000 operations at 10A, 24V dc

Image of product / Alternate images

Alternative



