

# Product data sheet

Specifications



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

XB5DTB23

## 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	22 mm
Panel Thickness	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 at 25 °C conforming to IEC 61812-1
Temperature Drift	+/- 0.05 %/°C
Voltage Drift	+/- 0.2 %/V
Protection Type	Reverse polarity protection Overvoltage protection
Pollution Degree	3 conforming to IEC 60664-1
Output Type	Open collector PNP
Temporary Permissible Current	10 A for 0.01 s
Minimum Switching Current	10 mA
Voltage Drop In Closed State	3 V
Nominal Rating	200 mA at 20 °C( derating 1.5 mA per °C)
Residual Current In Open State	0.1 mA
Maximum 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 for timing in progress LED, steady for no timing in progress and output relay energised
[Us] Rated Supply Voltage	24 V DC
Supply Voltage Limits	16.8...31.2 V DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Output Short-Circuit Protection	Yes
Connections - Terminals	Screw terminals 1 x 4 mm <sup>2</sup> conforming to IEC 60947-1 Screw terminals 1 x 2.5 mm <sup>2</sup> conforming to IEC 60947-1
Ip Degree Of Protection	IP65 front: conforming to IEC 60529 IP20 back: conforming to IEC 60529
Ambient Air Temperature For Operation	-20...60 °C
Ambient Air Temperature For Storage	-20...80 °C
Tightening Torque	0.5 N.m
Dielectric Strength	1500 V conforming to IEC 61812-1
[Ui] Rated Insulation Voltage	50 V conforming to IEC 60947-1 50 V conforming to IEC 60664-1
[Uimp] Rated Impulse Withstand Voltage	4 kV conforming to IEC 60947-1 4 kV conforming to IEC 60664-1
Surge Withstand	1 kV, level 2 conforming to 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 for 11 ms (6 shocks on each axis) conforming to IEC 60068-2-27
Resistance To Fast Transients	2 kV class level 3 conforming to 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	10 V/m 80 MHz...1 GHz level 3 conforming to IEC 61000-4-3 3 V/m 1.4...2 GHz level 2 conforming to IEC 61000-4-3 1 V/m 2...2.7 GHz level 1 conforming to IEC 61000-4-3
Immunity To Radioelectric Fields	10 V level 3 conforming to IEC 61000-4-6
Disturbance Radiated/Conducted	Class B conforming to EN 50022
Standards	IEC 61812-1 UL 508
Product Certifications	UL listed CE
Device Presentation	Monolithic product
Height	62 mm
Diameter	29 mm
Net Weight	0.027 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.200 cm
Package 1 Width	3.200 cm
Package 1 Length	7.500 cm
Package 1 Weight	27.000 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	72
Package 2 Height	15.000 cm

Package 2 Width	15.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.195 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

## Well-being performance

✓ Mercury Free

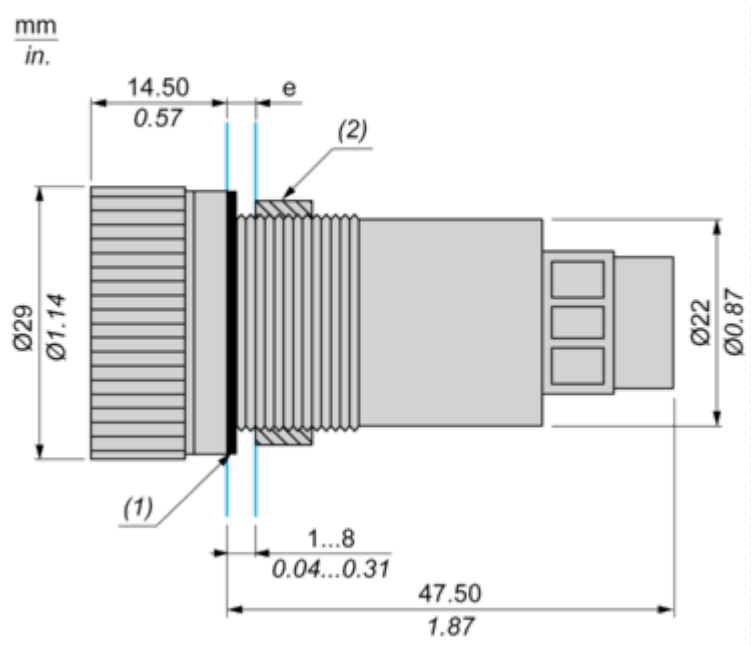
✓ Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Dimensions



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

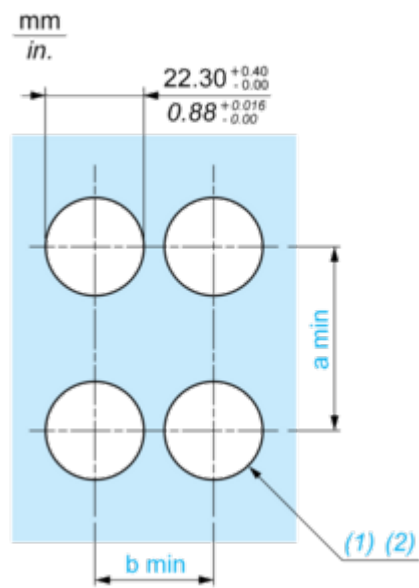
(1) Sealing ring

(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

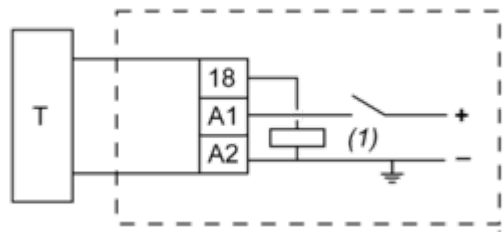


- (1) Diameter on finished panel or support
- (2) Ø22 mm recommended (Ø22.3 0+0.4) / Ø0.89 in. recommended (Ø0.88 in. 0+0.016)

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)

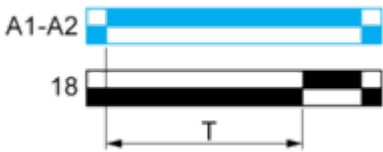
Technical Description





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