

# Product datasheet

Specifications



## Harmony XB5, Panel mounted timer monofunction, plastic, Ø22, time delay 3...60 s, 24 V DC

XB5DTB23

EAN Code: 3606481205476

### 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
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
Output short-circuit protection	Yes

<b>Connections - terminals</b>	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
<b>IP degree of protection</b>	IP65 front: conforming to IEC 60529 IP20 back: conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-20...80 °C
<b>tightening torque</b>	0.5 N.m
<b>Dielectric strength</b>	1500 V conforming to IEC 61812-1
<b>[Ui] rated insulation voltage</b>	50 V conforming to IEC 60947-1 50 V conforming to IEC 60664-1
<b>[Uimp] rated impulse withstand voltage</b>	4 kV conforming to IEC 60947-1 4 kV conforming to IEC 60664-1
<b>Surge withstand</b>	1 kV, level 2 conforming to IEC 61000-4-5
<b>Overvoltage category</b>	Class 3 conforming to IEC 60536 Class 3 conforming to IEC 60664-1
<b>Vibration resistance</b>	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
<b>Shock resistance</b>	+/- 15 gn for 11 ms (6 shocks on each axis) conforming to IEC 60068-2-27
<b>Resistance to fast transients</b>	2 kV class level 3 conforming to IEC 61000-4-4
<b>Electromagnetic compatibility</b>	Electrostatic discharge 6 kV level 3 conforming to IEC 61000-4-2 Electromagnetic emission class B conforming to IEC 55011
<b>Resistance to electromagnetic fields</b>	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
<b>Immunity to radioelectric fields</b>	10 V level 3 conforming to IEC 61000-4-6
<b>Disturbance radiated/conducted</b>	Class B conforming to EN 50022
<b>Standards</b>	IEC 61812-1 UL 508
<b>Product certifications</b>	UL listed CE
<b>Device presentation</b>	Monolithic product
<b>Height</b>	62 mm
<b>Width</b>	29 mm
<b>Depth</b>	29 mm
<b>Net weight</b>	0.027 kg
<b>Diameter</b>	29 mm

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3.200 cm
<b>Package 1 Width</b>	3.200 cm
<b>Package 1 Length</b>	7.500 cm
<b>Package 1 Weight</b>	27.000 g
<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	72

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

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## Logistical informations

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Country of origin FR

## Contractual warranty

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Warranty 18 months


## Environmental Data

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

 <b>Materials and Substances</b>	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)

### Use Longer

 <b>Lifetime extension</b>	
Product repair index	A

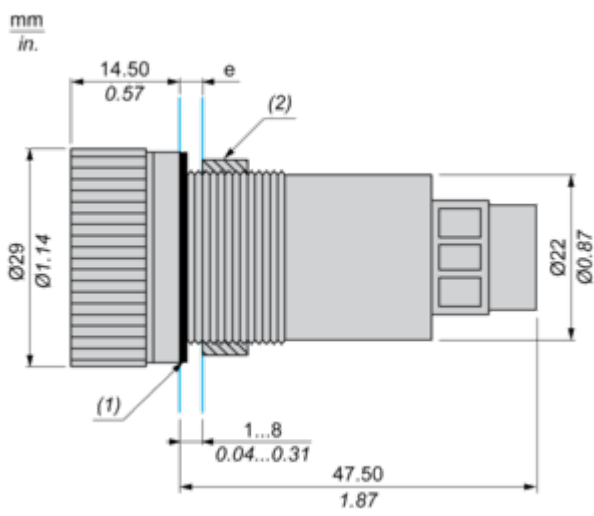
### Use Again

 <b>Repack and remanufacture</b>	
Take-back	No

Dimensions Drawings

**Dimensions**

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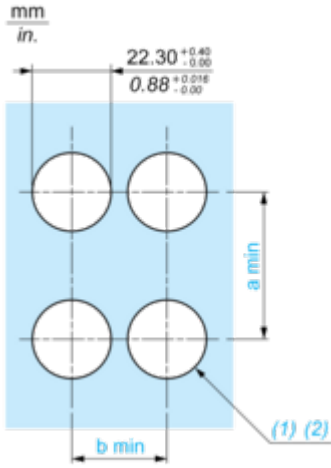


- (e) Clamping thickness: 1 mm to 6 mm / 0.03 in. to 0.24 in.
- (1) Sealing ring
- (2) Screw

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

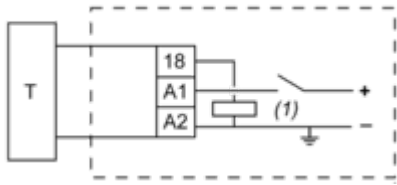
(2) Ø22 mm recommended (Ø22.3 0+0.4) / Ø0.89 in. recommended (Ø0.88 in. 0+0.016)

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

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T : Timer

(1) Load

A1 - A2 : Supply (24VDC)

Technical Description

**Function A : On Delay Timer**





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**Description**

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

**Function: Output**

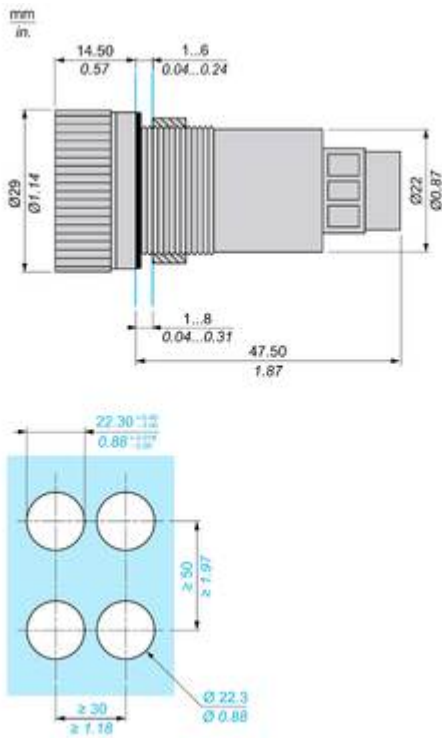


-  De-energised
  -  Energised
  -  Output open
  -  Output closed
- (18) Timed output  
(A1- A2) Supply

Technical Illustration

Dimensions

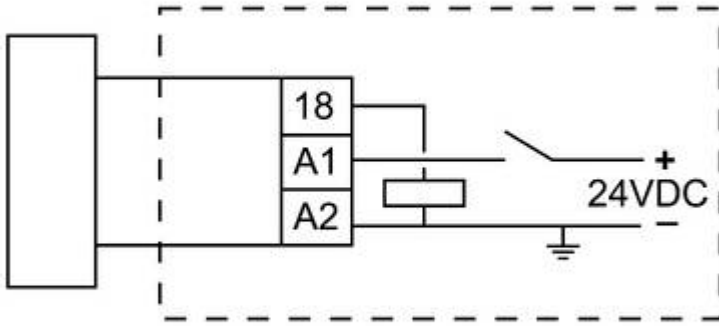
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Technical Illustration

**Wiring diagram**

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Offer Marketing Illustration

Product benefits / Features

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### Features Harmony XB5



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Quick and easy assembly and disassembly
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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

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## Technical Benefits

Harmony XB5



Image of product / Alternate images

Alternative

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