

## XB5DTB23

24 VDC Panel mounted timer monofunction with 3 s..60 s delay



### Main

|                               |                  |
|-------------------------------|------------------|
| Range of product              | Harmony XB5      |
| Sale per indivisible quantity | 1                |
| Product or component type     | Monolithic timer |

### Complementary

|                                        |                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------|
| Bezel material                         | Plastic                                                                                              |
| Fixing collar material                 | Plastic                                                                                              |
| Mounting diameter                      | 22 mm                                                                                                |
| Thickness                              | 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 EN/IEC 61812-1                                         |
| Temperature drift                      | +/- 0.05 %/°C                                                                                        |
| Voltage drift                          | +/- 0.2 %/V                                                                                          |
| Protection type                        | Overvoltage protection<br>Reverse polarity protection                                                |
| Output type                            | Open collector PNP                                                                                   |
| Temporary permissible current          | 10 A 0.01 s                                                                                          |
| Minimum switching current              | 10 mA                                                                                                |
| Voltage drop                           | <= 3 V                                                                                               |
| Network type                           | DC                                                                                                   |
| Residual current                       | <= 0.1 mA                                                                                            |
| Power consumption in W                 | < 1 W                                                                                                |
| Reset time                             | 5 ms after time delay on de-energisation<br>7 ms during time delay on de-energisation                |
| Local signalling                       | LED green flashing timing in progress<br>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        | With                                                                                                 |
| Connections - terminals                | Screw terminals 1 x 4 mm² EN/IEC 60947-1<br>Screw terminals 1 x 2.5 mm² EN/IEC 60947-1               |
| IP degree of protection                | IP65 front IEC 60529<br>IP20 back 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 EN/IEC 61812-1                                                                                |
| [Ui] rated insulation voltage          | 50 V EN 60947-1<br>50 V IEC 60664-1                                                                  |
| [Uimp] rated impulse withstand voltage | 4 kV EN 60947-1<br>4 kV IEC 60664-1                                                                  |

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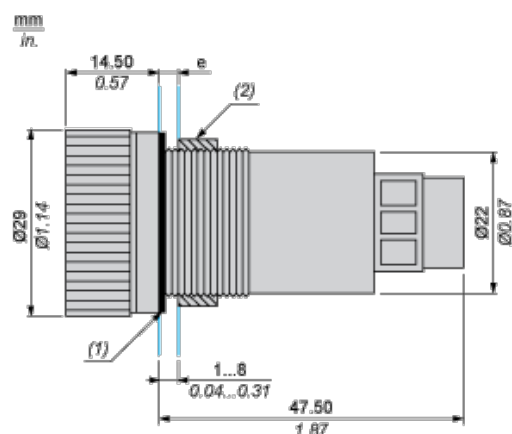
|                                      |                                                                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Surge withstand                      | 1 kV level 2 IEC 61000-4-5                                                                                                        |
| Overvoltage category                 | Class 3 IEC 60536<br>Class 3 IEC 60664-1                                                                                          |
| Pollution degree                     | 3                                                                                                                                 |
| Vibration resistance                 | 0.15 mm 10...60 Hz IEC 60068-2-6<br>2 gn 60...150 Hz IEC 60068-2-6                                                                |
| Shock resistance                     | +/- 15 gn 11 ms IEC 60068-2-27 6 shocks on each axis                                                                              |
| Resistance to fast transients        | 2 kV level 3 IEC 61000-4-4                                                                                                        |
| Electromagnetic compatibility        | Electromagnetic emission class B IEC 55011<br>Electrostatic discharge 6 kV level 3 IEC 61000-4-2                                  |
| Resistance to electromagnetic fields | 3 V/m 1.4...2 GHz level 3 IEC 61000-4-3<br>10 V/m 80 MHz...1 GHz level 3 IEC 61000-4-3<br>1 V/m 2...2.7 GHz level 3 IEC 61000-4-3 |
| Immunity to radioelectric fields     | 10 V level 3 EN/IEC 61000-4-6                                                                                                     |
| Disturbance radiated/conducted       | Class B EN 50022                                                                                                                  |
| Standards                            | EN/IEC 61812-1<br>UL 508                                                                                                          |
| Product certifications               | CE<br>UL listed                                                                                                                   |
| Height                               | 62 mm                                                                                                                             |
| Diameter                             | 29 mm                                                                                                                             |
| Product weight                       | 0.027 kg                                                                                                                          |
| Compatibility code                   | XB5                                                                                                                               |

## Environment

## Offer Sustainability

|                          |                           |
|--------------------------|---------------------------|
| Sustainable offer status | Not Green Premium product |
|--------------------------|---------------------------|

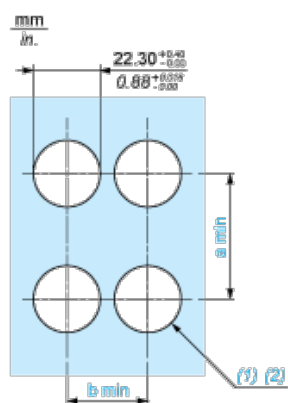
## Dimensions



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

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

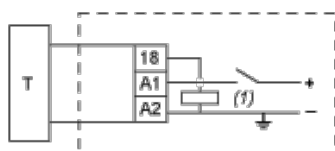
Connection by Screw Clamp Terminals or Plug-in Connectors



- (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     |

## Wiring Diagram



- T : Timer  
 (1) Load  
 A1 - Supply (24VDC)  
 A2 :

## 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- Supply  
 A2)