

**BT-SERIES  
TIMER BTR-Z**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Product image**


The BTR installation relay is a timing relay with an adjustable pickup delay.  
 After connecting the power supply, the set time T begins.  
 The timing relay is built into an Insta enclosure just 17.5 mm wide.  
 The relay contact is designed as a changeover contact with 250 V/5 A switching capacity.

**General ordering data**

Type	TIMER BTR-Z
Order No.	<a href="#">8647730000</a>
Version	BT-SERIES, Timing relay, Pull-in delay, , No. of contacts: 1, CO contact, AgNi 90/10, Rated control voltage: 24...230 V AC, 24...48 V DC, Continuous current: 5 A, Tension-clamp connection
GTIN (EAN)	4032248308934
Qty.	10 pc(s).

**BT-SERIES  
TIMER BTR-Z**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**Dimensions and weights**

Width	17.5 mm	Width (inches)	0.689 inch
Height	80 mm	Height (inches)	3.15 inch
Depth	74 mm	Depth (inches)	2.913 inch
Net weight	72 g		

**Temperatures**

Humidity	35...85 % rel. humidity, no condensation	Operating temperature, max.	55 °C
Operating temperature, min.	-10 °C	Storage temperature, max.	65 °C
Storage temperature, min.	-25 °C	Operating temperature	-10 °C...55 °C
Storage temperature	-25 °C...65 °C		

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Rated data UL**

Certificate No. (UR) E223474

**Input**

Rated control voltage	24...48 V DC + 10 % / - 15 % / 24...230 V AC + 10 % / - 15 %	Power rating	≤ 0.4 VA, 1.6 W
Pull-in/drop-out voltage, typ.	20.4 V / 2.4 V AC 20.4 V / 2.4 V DC	Status indicator	LED green: supply voltage, LED orange: relay output on
Repeat accuracy	± 1 %	Setting tolerance	10 %
Min. pulse duration	50 ms	Time ranges	0.1 s - 1.2 s, 1 s - 12 s, 0.1 min - 1.2 min, 1 min - 12 min, 0.1 h - 1.2 h, 1 h - 12 h, 10 h - 120 h
Max. reset time after voltage interruption	100 ms		

**Output**

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Continuous current	5 A		

**Contact data**

Contact type	1 CO contact (AgNi 90/10)	Electrical service life, DC coil	10 <sup>5</sup> switching cycles (5A at 250 Vac, ohm load at 1800/h)
Contact resistance	100 MΩ min., at 500 V DC	Mechanical service life	10 <sup>7</sup> switching cycles (no load, 1800/h)

**General data**

Version	Pull-in delay	Rail	TS 35
Test button	No	Mechanical switch position indicator	No
Colour	beige	UL 94 flammability rating	V-2

Creation date May 28, 2019 2:37:29 PM CEST

Catalogue status 23.05.2019 / We reserve the right to make technical changes.

## BT-SERIES TIMER BTR-Z

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

## Technical data

### Insulation coordination

Protection degree	IP20	Dielectric strength, Input/Output	2 kV <sub>eff</sub> / 1 min
-------------------	------	-----------------------------------	-----------------------------

### Further details of approvals / standards

Standards	UL508	Certificate No. (CSA)	219713
Certificate No. (UR)	E223474		

### Connection data

Wire connection method	Tension-clamp connection	Stripping length, rated connection	7 mm
Clamping range, rated connection	1.5 mm <sup>2</sup>	Clamping range, min.	0.2 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 16	Wire cross-section, solid, min.	0.2 mm <sup>2</sup>
Wire cross-section, solid, max.	1.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.2 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.2 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	0.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.2 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	0.5 mm <sup>2</sup>	Blade size	0.4 x 2.5 mm

### Classifications

ETIM 3.0	EC001439	ETIM 4.0	EC001669
ETIM 5.0	EC001669	ETIM 6.0	EC001439
UNSPSC	30-21-19-17	eClass 5.1	27-14-23-10
eClass 6.2	27-14-23-10	eClass 7.1	27-37-17-90
eClass 8.1	27-37-16-05	eClass 9.0	27-37-16-05
eClass 9.1	27-37-16-05		

### Approvals

Approvals



ROHS Conform

### Downloads

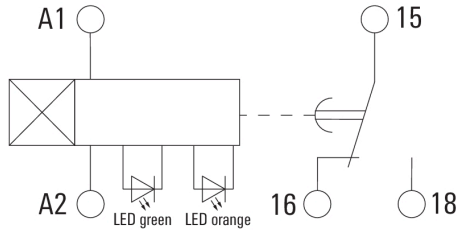
Approval/Certificate/Document of Conformity	<a href="#">DE_PA5600_160329_001.pdf</a>
Brochure/Catalogue	<a href="#">CAT 4.2 ELECTR 18/19 EN</a>
Engineering Data	<a href="#">EPLAN_WSCAD</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Time functions BTR-Timer</a>

**BT-SERIES  
TIMER BTR-Z**

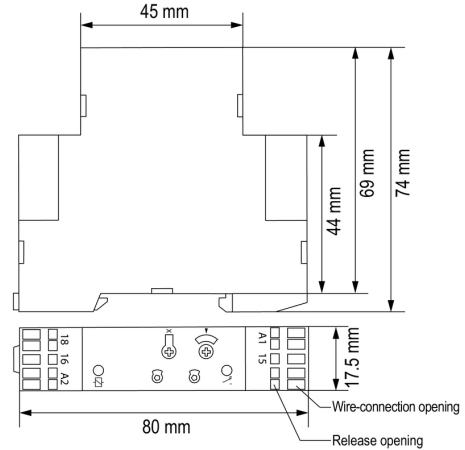
**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Drawings**

**Wiring diagram**

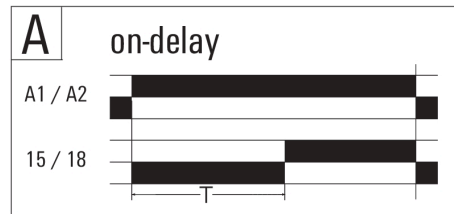
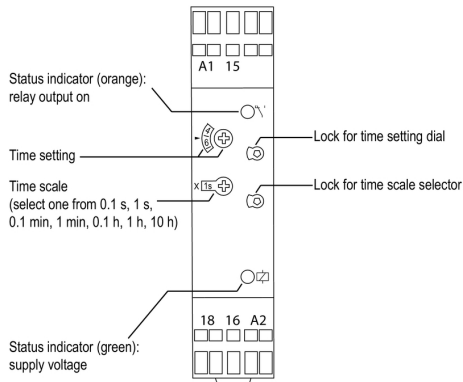


**Dimensional drawing**



**Dimensional drawing**

**Graph**



Detailed drawing

Time functions