

TIMER BTR-Z**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****General ordering data**

Version	BT-SERIES, On-delay timing relay, Number 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
Order No.	8647730000
Type	TIMER BTR-Z
GTIN (EAN)	4032248308934
Qty.	10 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2021-12-31

Creation date: [March 29, 2021 11:02:25 PM CEST](#)

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Technical data

Dimensions and weights

Depth	74 mm	Depth (inches)	2.913 inch
Height	80 mm	Height (inches)	3.15 inch
Net weight	70.9 g	Width	17.5 mm
Width (inches)	0.689 inch		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (UR)	E223474	Certificate No. (cURus)	E223474
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Control side

Max. reset time after voltage interruption	100 ms	Min. pulse duration	50 ms
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
Rated control voltage	24...48 V DC + 10 % / - 15 % / 24...230 V AC + 10 % / - 15 %	Repeat accuracy	± 1 %
Setting tolerance	10 %	Status indicator	LED green: supply voltage, LED orange: relay output on
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		

Load side

AC switching capacity (resistive), max.	2500 VA	Continuous current	5 A
DC switching capacity (resistive), max.	120 W @ 24 V	Max. switching voltage, AC	250 V
Rated switching voltage	250 V AC		

Contact data

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

General data

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

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Insulation coordination

Dielectric strength, Input/Output	2 kV _{eff} / 1 min	Protection degree	IP20
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Further details of approvals / standards

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

Connection data

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

Classifications

ETIM 6.0	EC001439	ETIM 7.0	EC001439
ECLASS 9.0	27-37-16-05	ECLASS 9.1	27-37-16-05
ECLASS 10.0	27-37-16-05	ECLASS 11.0	27-37-16-05

Approvals

Approvals



ROHS	Conform
UL File Number Search	E223474

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Time functions BTR-Timer

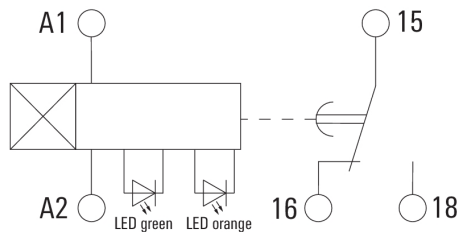
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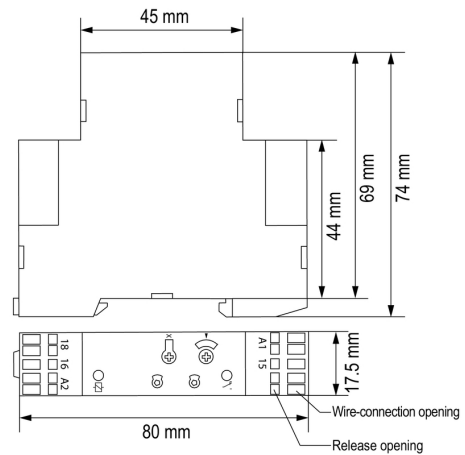
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Drawings

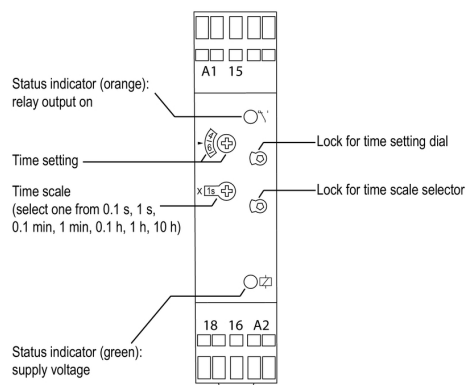
Wiring diagram



Dimensional drawing

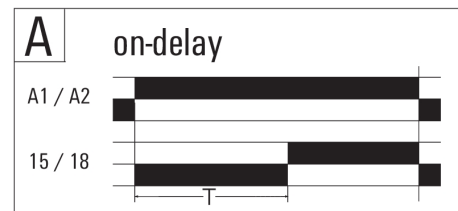


Dimensional drawing



Detailed drawing

Graph



Time functions