

**BT-SERIES
TIMER BTMF-S**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

The BTMF timing relay has 5 different timing functions. These are set via a rotary switch on the front. The delay and pulse times are selectable between 0.1sec. and 1 hour.

The timing relay is built into an Insta enclosure just 17.5 mm wide.

On the output side there is a relay contact with a switching capacity of 250 V/ 5 A.

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2021-12-31
Type	TIMER BTMF-S
Order No.	8647680000
Version	BT-SERIES, Multifunction 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, Screw connection
GTIN (EAN)	4032248308880
Qty.	10 pc(s).
Alternative product	2697250000

Creation date July 8, 2020 7:55:01 AM CEST

BT-SERIES
TIMER BTMF-S
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmüller.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	74.8 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. (cURus)	E223474	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	AC switching capacity (resistive), max.	2500 VA
DC switching capacity (resistive), max.	120 W @ 24 V		

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		

BT-SERIES
TIMER BTMF-S

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 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 _{eff} / 1 min
-------------------	------	-----------------------------------	-----------------------------

Further details of approvals / standards

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

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, max.	0.98 Nm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 20	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire connection cross-section, finely stranded, min.	0.5 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm ²
Blade size	size PH1		

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	UNSPSC	30-21-19-17

Approvals

Approvals



ROHS	Conform
------	---------

Downloads

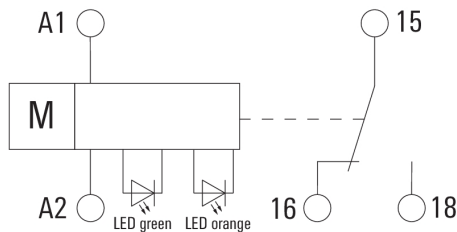
Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Time functions BTMF-Timer

BT-SERIES TIMER BTMF-S

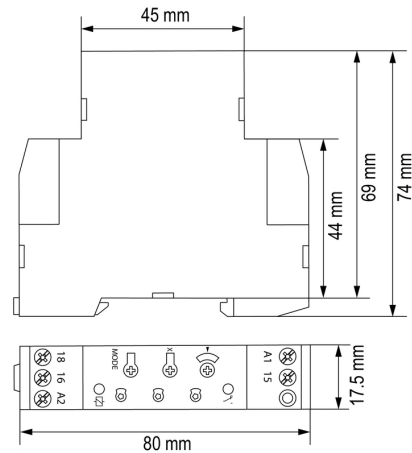
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

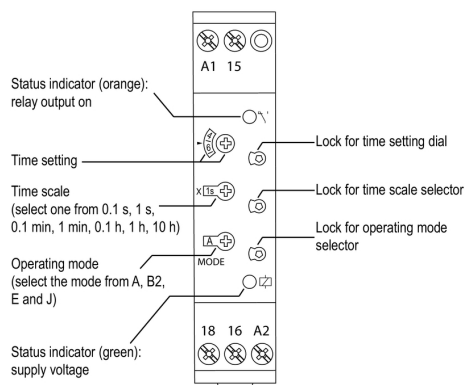
Wiring diagram



Dimensional drawing



Dimensional drawing



Detailed drawing

BT-SERIES
TIMER BTMF-S
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

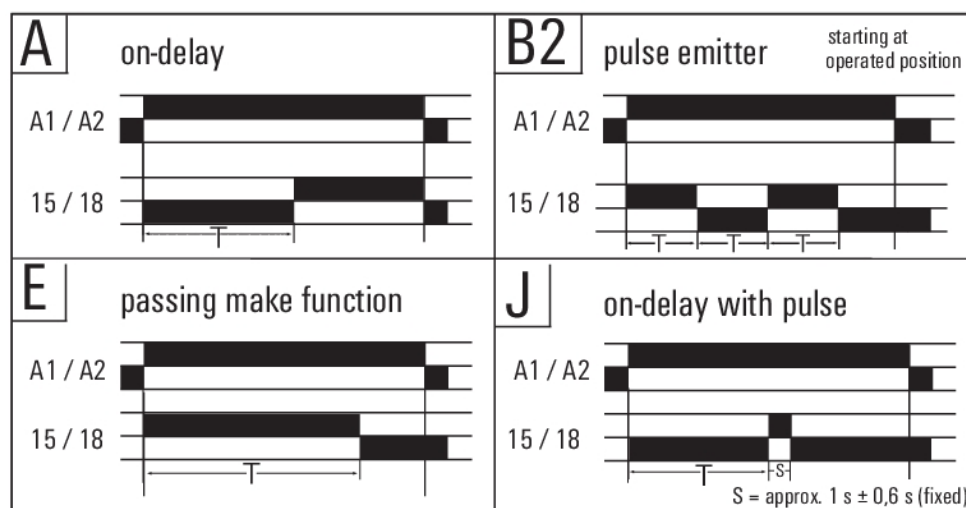
D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Drawings
Graph


Time functions