

**BT-SERIES  
TIMER BTM-S**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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The BTM timing relay has 8 different timing functions which can be set via a rotary switch on the front. Delay/clock times can be selected between 0.1 second and 120 hours.

The component has an additional control input on the input side which must be activated for the respective timing function.

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**

Type	TIMER BTM-S
Order No.	<a href="#">8647700000</a>
Version	BT-SERIES, Multifunction timing relay, with separate control input, No. 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)	4032248308903
Qty.	10 pc(s).

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**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	76.2 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		

**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 <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	with separate control input	Mounting rail	TS 35
Test button	No	Mechanical switch position indicator	No
Colour	Beige	UL 94 flammability rating	V-2

**Insulation coordination**

Protection degree	IP20	Dielectric strength input - output	2 kV <sub>eff</sub> / 1 min
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**Further details of approvals / standards**

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

Creation date June 5, 2018 9:17:19 AM CEST

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**Technical data****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 <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 20	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.5 mm <sup>2</sup>	Wire cross-section, solid, max.	2.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm <sup>2</sup>	Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm <sup>2</sup>
Blade size	size PH1		

**Rated data UL**

Certificate No. (UR)	E223474
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**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
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**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>
User Documentation	<a href="#">Time functions BTM-Timer</a>

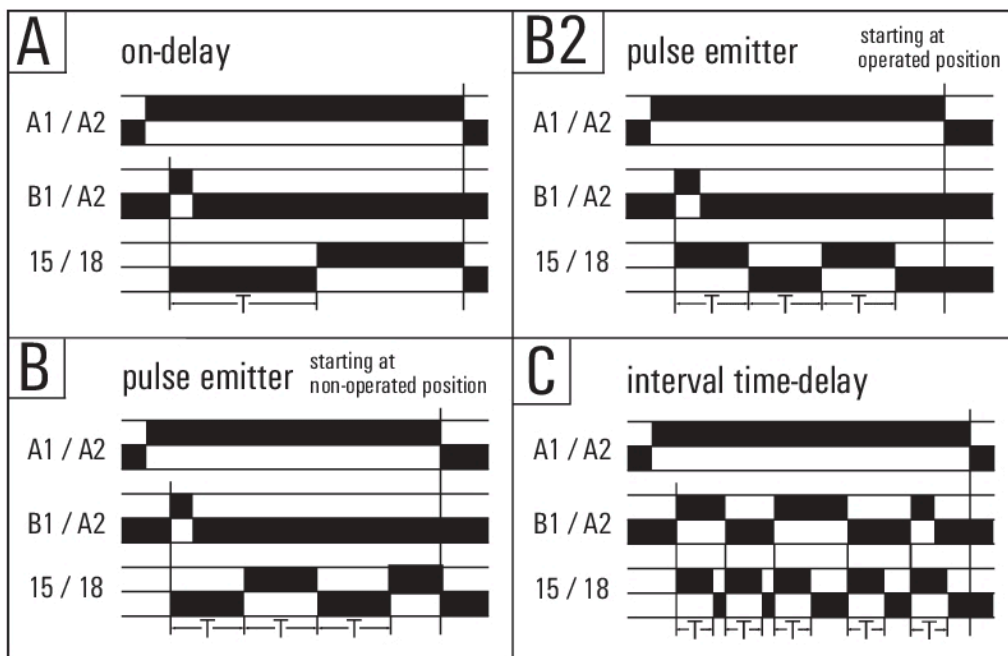


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**Drawings**

**Graph**



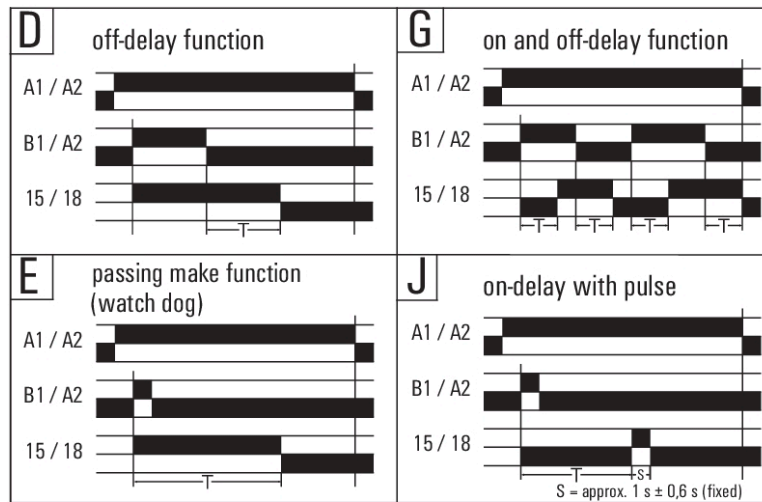
Time functions

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Time functions