Remote potentiometers for CT-S range timers Data sheet

The potentiometers are used as remote potentiometers for the fine adjustment of the delay times for the electronic timers out of ABB's CT-S range. There are multifunction timers such as the CT-MVS.21, CT-MXS.22, CT-MFS.21 and CT-MBS.22 which offer this functionality. When an potentiometer is connected to the remote potentiometer connection (terminals Z1-Z2, Z3-Z2 respectively), the internal, front-face potentiometer is disabled and the time adjustment is made via the external potentiometer.

For further documetation of the electronic time relays, please refer to the data sheets and the technical catalogue.



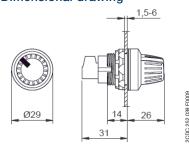
Features

- Remote potentiometers as accessories for time relays CT-S range
- Black knob with integrated position indication and marking in white
- Resistance 50 kOhm
- Element type cermet
- Rated power 2 W
- Mechanical angle 280°
- Screw type connection terminals
- Isolation voltage 900 V

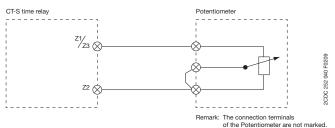
Approvals

- UL 508 File No. E76003

Dimensional drawing



Connection diagram/electrical diagram



Remote potentiometers for CT-S range timers

Order data

Remote potentiometer

50 k Ω ±20 % - 0.2 $\Omega,$ Degree of protection IP66



Туре	Material	Diameter	Order Code	Pack.	Weight
		in		unit	1 piece
		mm		piece	kg
MT-150B	Black plastic	22.5	1SFA 611 410 R1506	1	0.040
MT-250B	Chrome plastic	22.5	1SFA 611 410 R2506	1	0.040
MT-350B	Chrome metal	22.5	1SFA 611 410 R3506	1	0.048

Adaptor for reduction of 30 mm hole to 22.5 mm



Туре	Material	Order Code	Pack.	Weight
			unit	1 piece
			piece	kg
KA1-8029	Black plastic	1SFA 616 920 R8029	1	
KA1-8030	Chrome metal	1SFA 616 920 R8030	1	

Legend plates





Туре	Marking	Order Code	Pack.	Weight
			unit	1 piece
			piece	kg
SK 615 562-87	Symbol	GJD6 155 620 R0087	1	0.002
SK 615 562-88	Scale 0 - 10	GJD6 155 620 R0088	1	0.002
MA16-1060	Scale 0 - 30	1SFA 611 940 R1060	1	0.002

Remote potentiometers for CT-S range timers

Technical data

Data at T_a = 25 °C and rated values, unless otherwise indicated.

Туре		MT-150B, MT-250B, MT-350B
Electrical data		
Nominal resistance value		50 kOhm
Accuracy/tolerance		+/- 10 %
Linearity		+/- 5 %
Absolute minimum resistance		≤ 2 Ohm
Effective electrical angel		250° +/- 5°
Contact resistance variation		+/- 3 % of total resistance
Rated power		2 W
Theoretical resolution		essentially infinite
Isolation data		
Dielectric withstand voltage		≥ 900 V AC
Isolation resistance	500 V DC	≥ 1.000 MegaOhms
Mechanical data		
Stop strength		56.5 Ncm (5 lbin.)
Mechanical angle		280° +/- 5°
Torque	starting/running	0.35 - 4.23 Ncm (0.05 - 6.0 ozin.)
Environmental data		
Ambient temperature ranges	operation	- 1+ 70 °C
	storage	- 40+ 85 °C
Electrical connection		screw terminals
Wire size	fine-strand with wire end ferrule	1 x 0.5 – 1.5 mm² (1 x 24 – 12 AWG)
	rigid	1 x 0.5 – 2.5 mm² (1 x 24 – 12 AWG)
Stripping length		8 mm (0.32 lnch)
Tightening torque		0.4 Nm/3.6 lb.in
General data		
Duty time		100 %
Dimensions (length x diameter)		57 mm x 29 mm (2.3 x 1.1 lnch)
Weight	plastic versions/metal version	0.040 kg (0.09 lb)/0.048 kg (0.11 lb)
Mounting		22.5 mm hole
Mounting position		any
Degree of protection (EN 60529)	enclosure/terminals	IP66/IP20
Touch proof acc. DIN VDE 0106 part	100	yes

Contact

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→ Control Products

Note:

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