

flare TIME TWIN-1



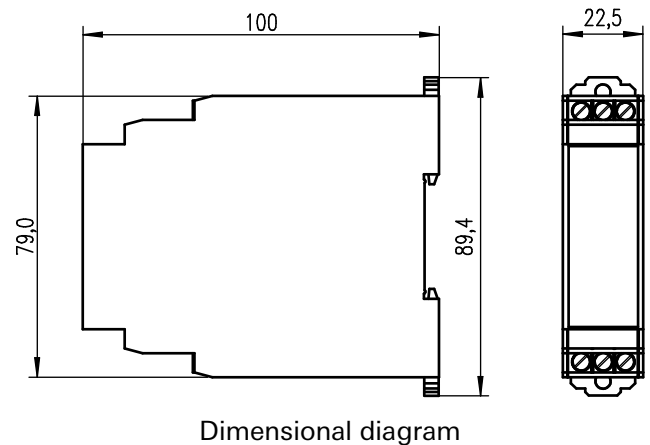
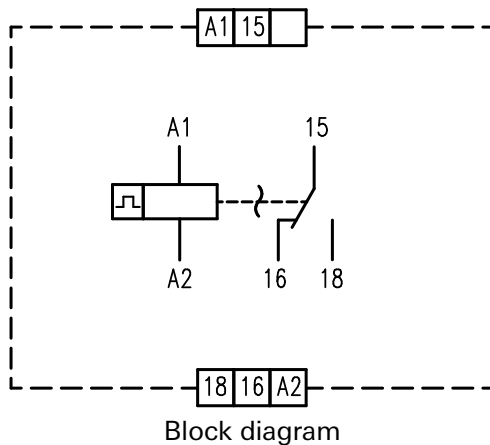
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Multi Range Repeat Cycle Relay

24-240 V AC/DC

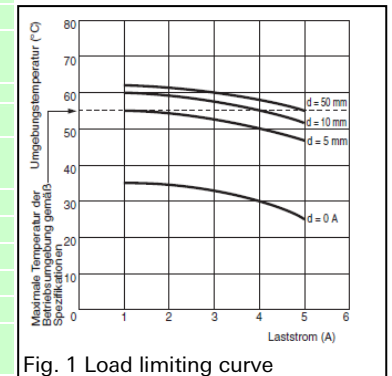
81.020.0011.0

- Multi range repeat cycle
- Multi range time
- Pulse and pause begin selectable
- Time for pulse and pause independently adjustable
- Voltage range 20,4 ... 264 V AC/DC
- Mounting width 22.5 mm



Technical Data

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Input / Control		
Rated supply voltage A1-A2	[U _{I N}]	24 ... 240 V AC/DC
Supply voltage range		20.4 ... 264 V AC/DC
Line frequency AC		50/60 Hz
Power consumption	[P _{I max}]	4.5 VA @ 240 V AC; 1.1 W @ 24 V DC
Output / Switching Contact		
Contacts		1 changeover contact
Contact load max.		5 A at 250 V AC / 5 A at 24 V DC, ohmic load
Contact output minimum load		10 mA at 5 V DC
Switching voltage max.		250 V AC / 30 V DC
Rated breaking capacity		see Fig. 1 Load limiting curve (d = distance to adjacent modules)
Contact material		AgNi
Life cycle		100 x 10 ³ operations (5 A at 250 V AC, ohmic load, 360 operations/h)
Time Ranges / Operating Modes		
Time ranges (8 time ranges)		0.1 s / 1 s / 10 s / 1 m / 10 m / 1 h / 10 h / 100 h
Accuracy of operating time		max. ±1 % of full scale
Setting error		max. ±10 % of full scale ±0.05 s
Influence of voltage		max. ±0.5 % of full scale
Influence of temperature		max. ±2 % of full scale
Operating mode		Twin timer, repeat cycle
Operating mode for output (Fig. 2 - g) (2 modes)		Flick ON: Pulse start for output Flick OFF: Pause start for output



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Functional Display	(see Fig. 2 Control and display elements)
LED Relay control (Fig. 2 - c 'ON', e 'OFF')	
Operating voltage off	LED c off / LED d off / n. o. contact open
Operating voltage on, on time running	LED c on / LED d off / n. o. contact closed
Operating voltage on, off time running	LED c off / LED d on / n. o. contact open
Isolation Property	
Dielectric strength (input/output)	2.000 V AC (50/60 Hz, for 1 min)
Insulation resistance (A1, A2 / contacts)	min 100 MΩ at 500 V DC
Approvals and Standards	
UL	cURus
CE	EMV 2004/108/EC; Low Voltage 2006/95/EC
Safety Standard	EN61812-1
Product Standard	EN61812-1
EMV immunity	EN61000-4-2, /-4-3, /-4-4, /-4-5
EMV emission	EN61000-3-2, /-3-3, EN55011 Class B
Operation / Dimensions / Wiring	
Operating temperature range [T _U]	-20 ... +55 °C
Storage temperature range [T _U]	-40 ... +70 °C
Humidity in operation	25 ... 85 % RH
Dimensions (W x H x D)	22.5 x 100 x 79.0 mm
Weight	ca. 120 g
Housing material	Plastic
Mounting in	35 mm rail acc. EN 60715
Cooling	free convection
IP protection	IP20
Clamp type	Screw clamp
Connector cross section (min.) solid/stranded	0.2 mm ² (AWG24)
Connector cross section (max.) solid/stranded	2.5 mm ² (AWG14)
Strip length	8 mm max.
Recommended torque	0.49 Nm
Terminal Connections	
A1 - A2	Supply voltage
15, 16, 18	Changeover contact (relay)
Control Elements	(see Fig. 2 Control and display elements)
a, f - turn switch (on time, off time)	Time range setting (0.1 s, ..., 100 h)
b, d - turn potentiometer	Time duration (0 ... 12 x time range)
g - turn switch (impulse/pause begin)	Impulse/pause begin for output

