

GAMMA series
 Single function - ON delay
 1 time limit range
 Supply voltage 150 to 440V d.c.
 2 change over contacts
 Width 22.5mm
 Industrial design



Read and understand these instructions before installing, operating or maintaining the equipment.



Danger!
 Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of obvious damage. To be installed by an authorized person.

Technical data

1. Functions

E ON delay

2. Time limit ranges

Time limit range	Adjustment range
1s	0.1s; 0.2s; 0.3s; 0.4s; 0.5s; 0.6s; 0.7s; 0.8s; 0.9s; 1s

3. Indicators

Green LED U/t ON:	indication of supply voltage
Green LED U/t blinking:	indication of time period
Yellow LED ON/OFF:	indication of relay output

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
 Mounted DIN-rail TS 35 according to EN 60715
 Mounting position: any
 Shockproof terminal connection according to VBG 4 (PZ1 required),
 IP rating IP20
 Tightening torque: max. 1Nm
 Terminal capacity:

1 x 0.5 to 2.5mm ²	with/without multicore cable end
1 x 4mm ²	without multicore cable end
2 x 0.5 to 1.5mm ²	with/without multicore cable end
2 x 2.5mm ²	flexible without multicore cable end

5. Input circuit

Supply voltage:	150 to 440V d.c.
Terminals:	A1(+)-A2
Tolerance:	-
Rated consumption:	1W
Duty cycle:	100%
Reset time:	350ms
Residual ripple of d.c.:	10%
Dropout voltage:	>25V d.c.
Overvoltage category:	III (in accordance with IEC 60664-1)
Rated surge voltage:	6kV

6. Output circuit

2 potential free change over contacts
 Rated voltage: 250V a.c.
 Switching capacity: 750VA (3A / 250V a.c.)
 If the distance between the devices is less than 5mm.
 Switching capacity: 1250VA (5A / 250V a.c.)
 If the distance between the devices is greater than 5mm.
 Fusing: 5A fast acting
 Mechanical life: 20 x 10⁶ operations

Electrical life:	2 x 10 ⁵ operations at 1000VA resistive load
Switching frequency:	max. 60/min at 100VA resistive load max. 6/min at 1000VA resistive load (in accordance with IEC 60947-5-1)
Open contact dielectric voltage: d.c. load breaking capacity:	max. 400V 300V, 0,23A 300V, 0,33A (2 contacts in series)
Schaltkategorie nach UL 508: Overvoltage category: Rated surge voltage:	R300, B300 III (in accordance with IEC 60664-1) 6kV
7. Accuracy	
Base accuracy:	±2,5% of the adjustment value ±10ms
Tolerance of setting:	-
Repeatability:	±5ms
Voltage influence:	-
Temperature influence:	±0,06% / °C
8. Ambient conditions	
Ambient temperature:	-25°C to +70°C
Storage temperature:	-40°C to +70°C
Transport temperature:	-25°C to +70°C
Relative humidity:	15% to 85% (in accordance with IEC 60721-3-3 class 3K3)
Pollution degree:	2 (in accordance with IEC 60664-1)
Vibration resistance:	10 to 55 Hz 0.35mm (in accordance with IEC 60068-2-6)
Shock resistance:	15g 11ms (in accordance with IEC 60068-2-27)

Functions

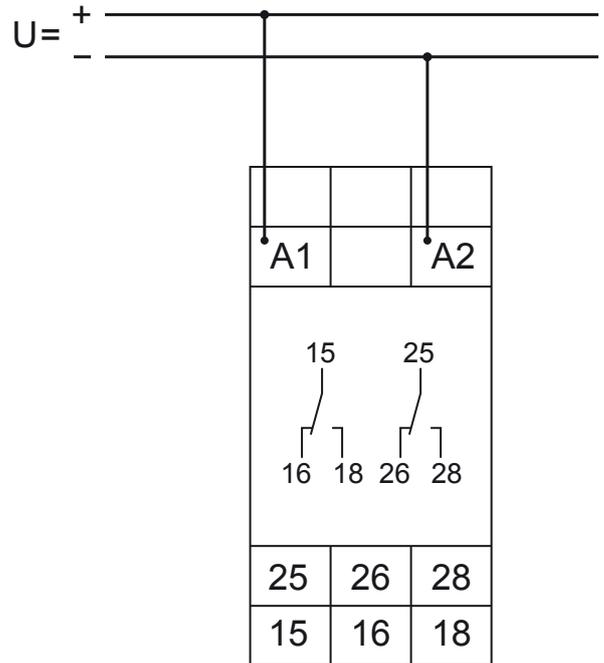
ON delay (E)

When the supply voltage U is applied, the set interval t begins (green LED U/t flashes). After the interval t has expired (green LED U/t illuminated) the output relay R switches into on-position (yellow LED illuminated). This status remains until the supply voltage is interrupted.

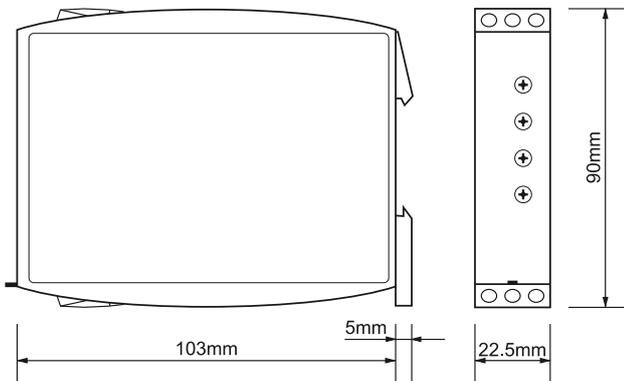
If the supply voltage is interrupted before the expiry of the interval t, the interval already expired is erased and is restarted when the supply voltage is next applied.



Connections



Dimensions



TELE Haase Steuergeräte Ges.m.b.H.
Vorarlberger Allee 38
AT-1230 Vienna, AUSTRIA

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Subject to alterations and errors

