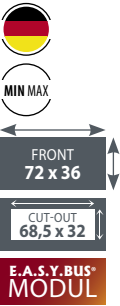


UNIVERSAL COUNTER AND FREQUENCY DEVICE



- HIGHLIGHTS:
- 6-digit display
 - Assembly, dismantling, sum and difference counter
 - 2 integrated switching outputs (galvanically isolated)
 - Configurable as display or controller (5 switching functions)
 - Extensive self-monitoring and diagnostic system

GIR 360
Art. no. 607953
Freely selectable universal counter and frequency meter

Specifications:	
Inputs	
Input 1:	frequency, rotational speed, counter input A
Input voltage:	0 ... 5 V (0 ... 28 V with dropping resistor)
Input level:	Low <0.5 V; High >2.2 V
NPN:	pullup resistor 7 kohms to 3.3 V
PNP:	pulldown resistor 7 kohms against GND
Min. pulse width:	50 us
Input 2:	count input B, Gate, direction
Input voltage:	0 ... 5 V (0 ... 28 V with dropping resistor)
Input level:	Low <0.5 V; High >2.2 V
NPN:	pullup resistor 7 kohms to 3.3 V
PNP:	pulldown resistor 7 kohms against GND
Min. pulse width:	50 us
Input 3:	reset input
Input level:	Low <1 V; High >8 V
Min. pulse width:	50 ms
Measuring / counting areas:	
Frequency:	0 ... 10 kHz
Speed:	max. 10000 U/min, switchable prescaler: 1 ... 1000
Counter:	-2.147.483.647 ... 2.147.483.646
Display area	
Frequency / Speed:	-1999 ... 9999 digit, decimal point freely selectable
Counter:	-199999 ... 999999 digit, decimal point freely selectable
Functions:	
Frequency measurement	
Speed measurement,	
Up counter, down counter	
Up / down counter with direction input	
Totalizer A + B,	
Difference counter A-B, phase discriminator	
Display:	approx. 10 mm high, 6-digit red LED display
Outputs:	
2 volt-free relay switching outputs	
relay 1: normally-open contact	
relay 2: normally-closed contact	
Switching functions:	2-point, 3-point, 2-point with alarm, combined min-/max-alarm with 1 output, separate min-/max- alarm with 2 outputs
Switching points, switching hysteresis:	freely selectable
Interface:	serial interface, electrically isolated, compatible to EASYBus
Miscellaneous:	continuous self-diagnostics, digital filter function, measuring range limitation
Voltage supply:	9 ... 28 V DC (standard)
Optional:	G24: 9 ... 28 V DC, electrically isolated

Power consumption:	max. 70 mA
Nominal temperature:	25 °C
Working temperature:	-20 ... +50 °C
Relative humidity:	0 ... 80 % RH (non condensing)
Storage temperature:	-30 ... +70 °C
Panel mounting:	with fixing clamps
Electric connection:	via screw-type/plug-in terminals cable cross section: 0.14 ... 1.5 mm².
Housing	
Dimensions:	72 x 36 mm (W x H) (front frame)
Installation depth:	approx. 75 mm (incl. screw-type/plug-in terminals)
Panelcut-out:	68,5 ^{+0.5} x 32,0 ^{+0.5} mm (W x H)
Scope of supply:	Device, manual

Variant:
GIR 360-G24 Art. no. 607954 GIR 300 with electrically isolated supply 9 ... 28 V DC
Accessories and spare parts:
APG-7 Art. no. 606825 Housing for surface mounting incl. seal GGD4896