DGR

overview

◆ speed control/PLC watchdog relay
◆ 8 selectable time ranges (0,1sec-100hrs)
◆ LED indicators for power supply and output relay
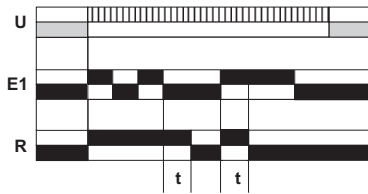◆ 22.5 or 45mm DIN rail mount housing

Function

Control relay active
Control relay passive
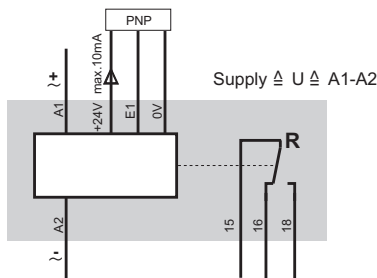
Contact closed
Contact open

U

E1

R

t   t

A Control relay to monitor changing impulses on a sensor
After applying the supply voltage the relay waits to see the leading edge of an input pulse.
When the pulse is detected the output relay energises. When there are no more pulses measured during time **t**, the output relay drops out.

Time ranges

| 0,1s-1,0s | 1s-10s | 0,1min-1min | 1min-10min | 0,1h-1h | 1h-10h | 3h-30h | 10h-100h |

The required delay time within the range selected is set using the potentiometer on the front plate.

PNP

Supply ≙ U ≙ A1-A2

R

specification

supply voltage variation	nominal voltage -15%..+10%	
frequency range	dc, 48..63 Hz	
max delay time	100% of the selected time range	
max input frequency	10Hz or 600 Rpm	
output spec. (EN 60947-5-1)		
relay type	1	2
I_e AC-15 230V~	1,5A	1,5A
I_e AC-15 115V~	1,5A	1,5A
I_e DC-13 24V=	1,5A	1,5A
I_{the} @ +20°C, detached	8A	10A
I_{the} @ +60°C, attached	5A	5A
Lebensdauer		
mechanical operations	1×10^7	1×10^7
electrical operations	8×10^4	1×10^5
screws	pozidriv 1, slot 4mm	
screw tightening torque	0,4Nm	
operating conditions	-20 to +60°C non condensing	

ordering information

part no	supply		output	relay type	sup. galv. iso*	housing types
DGR 230Vac	230V~	2VA	SPCO	1	yes	C
DGR 24Vdc	24V=	1W	SPCO	2	no	B

* The measurement input is galvanically isolated from the power supply

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