Monitoring Relays 3UG Monitoring Relays for Electrical and Additional Measurements

Speed monitoring

Technical specifications

Туре			3UG30/3UG35
Load capacity of the output relay	Rated operational current $I_{\rm e}$ AC-15/24 400 V DC-13/24 V DC-13/125 V DC-13/250 V	A A A A	Max. 8 3 1 0.2 0.1
Minimum contact load		mA	5 /17 V for a fault of 1 ppm
Output relay with DIAZED fuse ¹⁾	gL/gG operational class	А	4
Electrical endurance	Operating cycles		1 x 10 ⁵
Mechanical endurance	Operating cycles		2 x 10 ⁶
Ambient temperature	During operation During storage	°C °C	-20 + 50 -30 + 70
Conductor connection	Solid Finely stranded, with end sleeves	mm² mm²	2 x (0.52.5) 2 x (0.51.5)
Degree of protection	Terminals Enclosure		IP20 IP40
Vibration resistance	According to IFC 60068-2-6	Hz/mm	10 150/0 035

Short-circuits without any relay contact welding according to DIN VDE 0660 Part 200.

Туре			3UG30 51
Rated control supply voltage $U_{\rm s}$		V	See Catalog LV 1, Selection Data (for AC voltages with electrical isolation by means of transformer, 24 V DC without electrical isolation)
Voltage tolerance			0.851.15 x U _s
Maximum power consumption		W/VA	4/5
Set value		%	Adjustable to 10 100 of the selected time setting range
Hysteresis		%	Typically 5 of the set value
Setting accuracy		%	10 referred to upper limit of time setting range
Repeat accuracy	At constant parameters	%	± 0.5
Deviations	With temperature fluctuations	%/°C	0.1
ON-delay T		S	Adjustable to 0.3 30 ±10 %
Signal input IN1 ¹⁾	(Input resistance 16 k)	V	Max. voltage 30, 3-wire sensor, pnp operation
Signal input IN2 ¹⁾	(Input resistance 1 k)		Floating contact, 2-wire NAMUR sensor
Voltage level for reliable operation	Level 1 Level 0	V V	4.5 30 0 to 1
Sensor supply	+24 V / 0 V +8 V2	mA mA	Max. 50 at 24 V (20 35 V DC) 1 DC 8.2 V
Measuring range selectable (rotary switch on fr Time setting range	ont))		
• 0.1 1 s			
	FrequencyRevolutions	Hz min ⁻¹	10 1 600 60
• 1 10 s			
	FrequencyRevolutions	Hz min ⁻¹	1 0.1 60 6
• 0.1 1 min			
	FrequencyRevolutions	Hz min ⁻¹	0.17 0.017 10 1
• 1 10 min			
	- Frequency	Hz · -1	0.017 0.0017
- Revolutions - Minimum pulse duration of signal - Minimum interval between 2 pulses		min ⁻¹ ms ms	1 0.1 5 5
Function mode setting	With or without memory	-	Rotary switch on front side
Availability time after applicat	,	ms	200
Mains buffering time		ms	10

¹⁾ The sensors are not included in the scope of supply.