



DZ260, 261, 266, 267, 269

Monitor for speed, standstill and direction of rotation with incremental encoder signals

Product Features:

- Compact and versatile monitor for control of overspeed, underspeed, standstill and direction of rotation
- Universal inputs for incremental encoders, proximity switches, photocells or sensors
- Conversion of quadrature signals (A, B, 90°) as well as single-channel signals (HTL, TTL or RS422)
- Logical monitoring of remote motion enable signals
- Available with programmable transistor outputs, relays outputs or analog output
- All models include serial RS232 interface
- Extremely wide frequency range, operating from 0.1 Hz up to 1 MHz
- Easy setup by means of four keys and LCD menu or by PC operator software

Available Devices:

- DZ260: Monitor with 3 output relays and 1 analog output
- DZ261: Monitor with 3 fast switching transistor outputs and 1 analog output
- DZ266: Monitor with 1 analog output
- DZ267: Monitor with 3 output relays
- **DZ269:** Monitor with 3 fast switching transistor outputs



Power supply:	Input voltage:	17 30 VDC
,	Protection circuit:	reverse polarity protection
	Ripple:	≤ 10 % at 24 VDC
	Consumption:	approx. 70 mA (unloaded)
Connections:	Connector type:	screw terminals, 1,5 mm ² / AWG 16
Encoder supply:	Output voltage:	approx. 5.2 V
	Output current:	max. 70 mA
Incremental input:	Signal levels:	RS422, differential voltage > 1 V
		TTL: LOW 0 0.5 V / HIGH: 3 5.3 V
		HTL: LOW 0 4 V / HIGH: 10 30 V
	HTL Characteristic:	NPN / PNP
	Internal resistance:	Ri ≈ 4.75 kOhm
	Channels:	A, /A, B, /B
	Frequency:	max. 1 MHz at RS422 and TTL symmetrical
		max. 350 kHz at HTL and TTL asymmetrical
Control inputs:	Number of inputs:	2
	Application:	connection of inductive proximity switches or control commands
	Signal levels:	LOW < 2.5 V, HIGH > 10 V (max.30 V),
	Internal resistance:	Ri ≈ 3.9 kOhm
	min. time of dynamic signals:	50 µs
	min. time of static signals:	2 ms
Analog output:	Voltage output:	-10 +10 V / 0 +10 V (max. 2 mA)
(not with DZ267 and DZ269)	Current output:	0 20 mA / 4 20 mA (burden: max. 270 Ohm)
	Resolution:	14 Bit (±13 Bit)
	Accuracy:	0.1 %
	Oscillation time:	approx. 200 μs (reaction after 2 x sampling time + 200 μs)
Relay outputs: (only with DZ260 and DZ267)	Number of relays:	3 potential free changeover contacts
	Operating capacity:	30 VDC / 2 A or 115 VAC / 0.6 A or 230 VAC / 0.3 A
	Reaction time:	approx. 4 ms
Transistor outputs:	Number of outputs:	3
(not with DZ261 and DZ269) Serial interface:	Signal levels:	5 30 VDC (depends on COM+ voltage), PNP
	Output current: Protection:	max. 350 mA per output
		short circuit proof
	Reaction time: Format:	< 1 ms RS232
Display:	Baud rate:	nozoz 2400 38400 Baud
		Background lightened LCD
Housing:	Type: Characteristic:	2 lines, each 16 characters, 3,5 mm
	Material:	Plastic
nousing.	Mounting:	35 mm top hat rail (according to EN 60715)
	Dimensions (w x h x d):	72 x 91 x 76 mm
	Protection class:	1P20
	Weight:	approx. 200 g
Temperature range:	Operation:	0 °C +45 °C / +32 +113 °F (not condensing)
remperature range.	Storage:	-25 °C +70 °C / -13 +158 °F (not condensing)
Failure rate:	I MIRE in voare.	
Failure rate:	MTBF in years:	23.4 a (long-term usage at 60 °C / 140 °F) EN 61000-6-2 EN 61000-6-3 EN 61000-6-4
Failure rate: Conformity and standards:	MTBF in years: EMC 2004/108/EC: LV 2006/95/EC:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 EN 61010-1