

DI522A



Compact evaluation unit for speed monitoring

DIA3010-ZPKG/US/3D/5S



1 potentiometer



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Dimensions [mm]	M30 x 1.5 / L = 92.3

Application

Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
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Electrical data

Nominal voltage DC [V]	10...36
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Total number of outputs	1
Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Short-time current rating of switching output [mA]	250
Short-circuit proof	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	10
Sensing range adjustable	no
Operating distance [mm]	0...8.1

Measuring/setting range

Setting range [Imp/min]	5...3600
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Measuring principle		inductive	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
Hysteresis [% of Sr]		10	
Reaction times			
Start-up delay [s]		5	
Max. damping frequency [Imp/min]		18000	
Software / programming			
Adjustment of the switch point		multiturn potentiometer	
Operating conditions			
Ambient temperature [°C]		-25...60	
Storage temperature [°C]		-25...60	
Protection		IP 65; IP 67	
Tests / approvals			
Approval		IECEX BVS 17.0094X	
ATEX marking		 II 3D Ex tc IIIC T80°C Dc X	
EMC		EN 60947-5-2	
Shock resistance		DIN EN 60947-5-2	
Vibration resistance		DIN EN 60947-5-2	
MTTF [years]		3262	
Mechanical data			
Weight [g]		267	
Mounting		flush mountable	
Dimensions [mm]		M30 x 1.5 / L = 92.3	
Thread designation		M30 x 1.5	
Material		brass special coating; PA; stainless steel; TPE-U	
Displays / operating elements			
Display		Switching status	1 x LED, green
		input signal	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Electrical connection			
Connector: 1 x M12; coding: A			
			

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Connection

