POSICONTROL

Safety motion monitor

Series

IFS-10

- Monitors overspeed, underspeed, standstill and counting direction •
- Safety function acc. to EN61800-5-2 (SS1, SS2, SOS, SLS, SDI, SSM) •
- SIL3 / PLe certified
- Inputs for 2 standard encoders (HTL/PNP, RS422 or sin/cos)
- Safety outputs (1 x relays, 1x analogue, 4x HTL) •
- Encoder signal splitter function, for sin/cos and RS422 •
- Removable programming display IFS10-PM •
- USB setup interface •
- DIN rail mounting



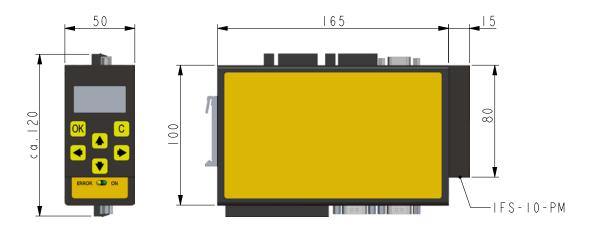
PLe

IFS-10

FUNCTIONS		
Monitors overspeed, underspe Encoder signal splitter functio	ed, standstill and counting direction. on (for sin/cos & RS422)	
Safety features:	$\label{eq:SIL3} $ \end{tabular} PLe (depending on used encoders) \\ Dual-channel, cat. 3 / HFT = 1 \\ DC (avg): 97,07%, SFF: 99,2% \\ MTTF_a: 38,1 years \\ PFH: 3,76^{*}10^{-8}/h \\ \lambda_{sD}/\lambda_{sU}/\lambda_{DD}/\lambda_{DU}: 1,93^{*}10^{-6}/h / 4,64^{*}10^{-8}/h / 2,94^{*}10^{-6}/h / 6,14^{*}10^{-8}/h \\ EN61800-5-2 for SS1, SS2, SOS, SLS, SDI, SSM (dep. on used encoders) \\ \end{tabular}$	
ENVIRONMENTAL SPECIFICATIONS		
Operating temperature range:	-25℃ +55℃ (-13°F +131°F)	
Storage temperature range:	-25°C +70°C (-13°F +158°F)	
Protection:	IP20	
	MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing	
Electrical connections:	DSub 9 pin connector (sin/cos encoder in/out) Screw terminals (power supply, RS422 encoder in/out, control in/outs)	
Housing material:	Plastic	

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Weight:	~ 390 g

+18Vdc +30Vdc (max. 10% ripple @ 24Vdc) against inversion of polarity
150 mA max. (without sensors)
Vout = Vin - 2Vdc
2 x RS422 (AB /AB), max. 500 kHz 2 x sin/cos 1Vpp (AB /AB), max. 500 kHz
2 x HTL/PNP + 10Vdc +30Vdc (AB /AB) max. 150mA, 250 kHz (if used as encoder input) 1 kHz (if used as control input)
AB /AB RS422 splitter output (sin/cos, RS422 or HTL)
4-20 mA (14 bit resolution, acc. 0,1% fs)
4 (with inverted signals) Push-Pull, max. 30 mA (ea output)
2 NO in series (forced guided contacts), 5Vdc 36Vdc - 5mA 5A



IFS-10

Order code

Order code	Description

IFS-10	Version with all inputs, outputs and encoder signal splitter function
IFS-10A	Version with all inputs, outputs without encoder signal splitter function
IFS-10S	Version with 1 sin/cos input (SIL3/PLe), 2 control inputs, all outputs and splitter function
IFS-10SA	Version with 1 sin/cos input (SIL3/PLe), 2 control inputs, all outputs, without splitter function
IFS-10-PM	Removable programming display with touchscreen

Recommended encoder types

Туре	Description
1 x SGSD-L-2N + MRI/72	Redundant magnetic ring encoder with contactless sensing, IP67. Line Driver 24/5V
2 x I58x-L-xxx2	Standard incremental shaft encoder with Line Driver 24/5V
2 x CK58x-L-xxx2	Standard incremental hollow shaft encoder with Line Driver 24/5V

Please ask our customer service for further advice and recommended encoder types