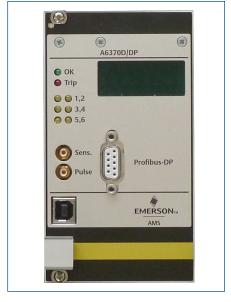
A6370 Overspeed Protection Monitor

The A6370 Monitor is part of the AMS 6300 SIS Overspeed protection system and is mounted in a 19" rack (84HP width and 3RU height) in combination with the A6371 system backplane. One AMS 6300 SIS consists of three Protection monitors (A6370) and one backplane (A6371).

The system is designed for use with Eddy-Current sensors, Hall- Element sensors and Magnetic (VR) Sensors.

Sensor Voltage Supply			
Nominal supply voltage	-24.5 V ±1.5V DC	Short-circuit proof, galvanically seperated	
Max. Current	35 mA		
Signal Input, Eddy current	& Hall element Sensors		
Input signal voltage range	0 V to 26 V (+/-)	Protected against reverse polarity	
Limit range	± 48 V		
Frequency range	0 to 20 kHz		
Input resistance	Typical 100 kΩ		
Signal Input, Magnetic (VR) Sensors			
Input signal voltage range	Min. 1 Vpp, max. 30 V RMS		
Frequency range	0 to 20 kHz		
Input resistance	Typical 18 kΩ		
Digital Input (Backplane)	Digital Input (Backplane)		
Number of Inputs	4 (galvanically separated with common ground of all digital inputs)	(Test Value 1, Test Value 2, Enable Test Values, Reset Latch)	
Logic low level	0 V to 5 V		
Logic high level	13 V to 31 V, open		
Input Resistance	Typical 6.8 kΩ		
Current Output (Backplan	e)		
Number of Outputs	2	Electrically isolated with common ground	
Range	0/4 to 20 mA or 20 to 4/0 mA		
Accuracy	±1% of full scale		
Maximum load	<500 Ω		
Max. output current	20 mA		



A6370D/DP Monitor "Profibus"









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Digital Output (Backplane)	
Number of Outputs	7 (Short-circuit proof)	Out 1 to Out 6, Channel Ok (COK)
Logic low level	< 100 mV	
Logic high level	-2 V	System Supply Voltage
Max. Current	25 mA	
Pulse Output (Backplane)		
Number of Outputs	3	Open-Collector-Emitter, Current limited, galvanically seperated
Max. Voltage	31.2 V	
Max. Current	16 mA @ 24 V	
Frequency range	0 to 20 kHz	
Pulse Output (Front Panel)		
Number of Outputs	1 (Short-circuit-proof)	
Voltage	0 to 5 V	TTL- Signal
Frequency range	0 to 20 kHz	
Output Impedance	Typical 10 kΩ	
Sens. Output (Front Panel)		
Number of Outputs	1 (Short-circuit-proof)	
Voltage	0 to 3.9 V	Factor 0.15 ± 3%
Frequency range	0 to 20 kHz	
Output Impedance	Typical 10 kΩ	
Communication		
USB	Configuration Interface, USE	3 type B
RS 485	Max. 32 devices	
	Baud Rate: 38400, 57600,1	15200 Baud
Profibus DP (A6370D/DP only)	Max. 31 devices	
(A0370D/DP Offly)	Data transmission rate: up to 12 Mbit/s	
Reaction Time		
Speed	< Measuring Time + 8 ms	
Typical reaction time speed at 3000 min-1	Mode "1x per revolution": 3	
at 5000 11111-1	Mode "Automatically": 12.5ms	
at 3000 mm-1	Mode "Automatically": 12.5	ms

Environmental, General		
Protection Class	IP20	according to IEC 60529 rack mounted, otherwise IP00
Operating Temperature	-20°C to +65°C (-4°F to 149°F)	
Storage Temperature	-40°C to +70°C (-40°F to 158°F)	
Relative Humidity	5 to 95%	non-condensing
Vibration	0.15mm (0.591in) 20 m/s2	58 to 62Hz to 150Hz according to IEC 60068-2-6
Shock	100 m/s2, 6ms	according to IEC 60068-2-27,
Operating Altitude	<5000 m	above sea level
Connector card slot	type F48 female	according to IEC 60603-2
Screw Terminals	0.2 to 2.5 mm2	Flexible cable
	Max. 4 mm2	Rigid cable
SUB-D connector	SUB-D 9 and SUB-D 25	shielded, UNC 4-40 screw lock
Dimensions	3RU/42HP	conform to IEC 60297
	(WxHxD) 211 x 130 x 43 mm (WxHxD) (8.31 x 5.12 x 1.70 in)	
Weight	app 490g (1.080 lbs)	exclusive packaging

Compliance and Certifications

CE	2014/30/EU
	2014/34/EU
	2006/42/EG
	EN 61326-1
	DIN EN 50581
	DIN EN 62061
CSA	CAN/CSA-C22.2 NO. 61010-1-04
	UL 61010-1 (2nd Edition)
TÜV NORD	IEC 61508:2010; capable up to SIL 3
	DIN EN 62061:2005; capable up to SILCL 3
	DIN EN 61511:2005; capable up to SIL 3

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Ordering Information

Model Number	Product Description
A6370D	AMS 6300 SIS - MONITOR, 1 CH SPEED, DISPLAY
A6370D/DP	AMS 6300 SIS - MONITOR, 1 CH SPEED, DISPLAY, PROFIBUS

Product Accessories

Model Number	Product Description
A6363	AMS 6300 SIS - CONNECTION CABLE, PROFIBUS, 4M
A6910	CONFIGURATION KIT

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