

OPERATING INSTRUCTIONS F58A REV. 0

Hall Effect Zero Speed Sensor

F58A

GREEN LINE INDUSTRIAL SPEED SENSORS

	Type #	Product #	Drawing #
	F58A	385Z-05323	113.592 Rev.1
General			
Function	The F58A series Hall effect speed sensors are suitable, in conjunction with a ferrous pole wheel, for generating square wave signals proportional to rotary speeds. They exhibit a static function, whereby pulse generation down to 0 Hz is guaranteed. The sensor function is independent of rotational mounting angle.		
Technical data			
Supply voltage	825 VDC		
Current consumption	Max. 12 mA (without load)		
Signal output		ed to supply (negative pole = ax. 25 mA y voltage	with internal 2.7 kOhm pull-up reference Voltage).
Frequency range	0 Hz15 kHz		
Housing	5/8"-18 UNF-2A, tightening torque: max. 35 Nm		
Connection	Connector: M12x1 thread, 4 pins, black		
Protection	Sensor head: IP68 Connector: IP67		
Insulation	Housing and electronics galvanically isolated (Test: 500 V, 50 Hz for 1 minute)		
Pole wheel	Prerequisite: Tootl Optimal performar Involute gear Tooth width > Side offset < 0 Eccentricity < 0	10 mm).2 mm	al (e.g. Steel 1.0036).
Air gap between sensor and pole wheel	Module 1.0 (DP 25.4): 0.30.5 mm Module 2.0 (DP 12.7): 0.31.5 mm		
Electromagnetic compatibility (EMC)	Please contact Ja	quet for further details.	
Vibration & shock immunity	Jaquet Greenline sensors are approved for rough environments. Please contact Jaquet for further details.		
Operating temperature	-40℃…125℃		



IN CHARGE OF SPEED

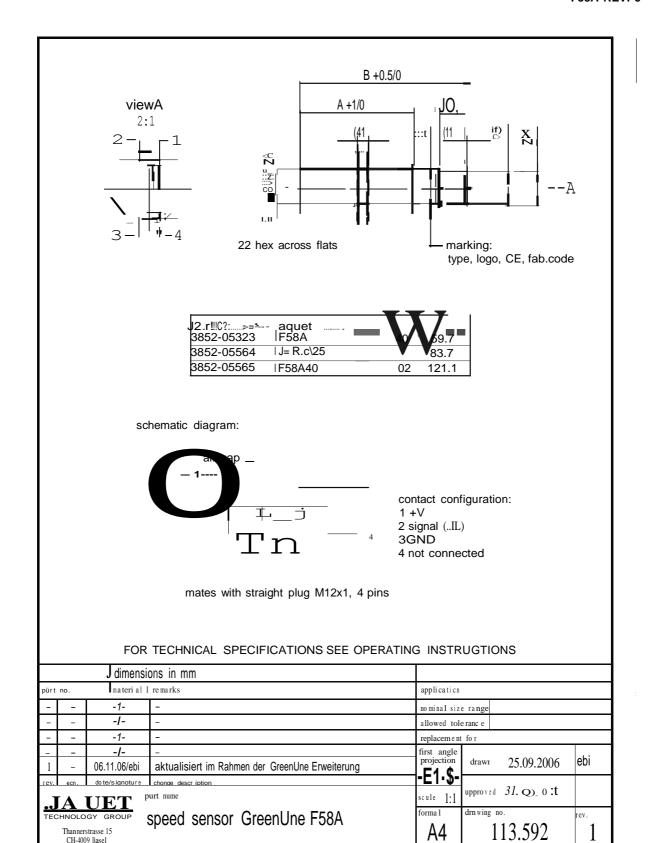
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Further Informat	tion	
Safety	All mechanical installations must be carried out by an expert. General safety requirements have to be met.	
Installation	The sensor has to be aligned to the pole wheel according to the sensor drawing independent of its rotational orientation. Deviations in positioning may affect the performance and decrease the noise immunity of the sensor. During installation, the smallest possible pole wheel to sensor gap should be set. The gap should however be set to prevent the face of the sensor ever touching the pole wheel. Within the air gap specified the amplitude of the output signal is not influenced by the air gap. A sensor should be mounted with the middle of the face side over the middle of the pole wheel. Dependent upon the wheel width, a certain degree of axial movement is permissible. However, the middle of the sensor must be at minimum in a distance of 3 mm from the edge of the pole wheel under all operating conditions. A solid and vibration free mounting of the sensor is important. Eventual sensor vibration relative to the pole wheel can induce additional output pulses. The sensors are insensitive to oil, grease etc. and can be installed in arduous conditions.	
Maintenance	Product cannot be repaired.	
Transport	Product must be handled with care to prevent damage of the front face.	
Storage	Product must be stored in dry conditions. The storage temperature corresponds to the operation temperature.	
Disposal	Product must be disposed of properly, it must not be disposed as domestic waste.	





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