



DSF xx10.xx AxV

Single Channel Hall Effect Speed Sensor

Product ID

Type #	Product #	Drawing #
DSF 1210.00 AHV	374Z-03867	110829
DSF 1210.00 ATV	374Z-03868	110829
DSF 1210.01 AHV	3742608541	120251
DSF 1410.00 AHV	374Z-03940	111499
DSF 1410.00 AHV S148 IG=100mm	374Z-04807	111499 S148
DSF 1410.00 ATV	374Z-03939	111499
DSF 1410.00 ATV S148/1 IG=60mm	374Z-04112	111499 S148/1
DSF 1410.02 AHV L=70mm	374Z-04429	111985B
DSF 1410.02 AHV L=100mm	374Z-04428	111985
DSF 1410.02 AHV L=140mm	374Z-04427	111985A
DSF 1410.02 AHV L=220mm	374Z-05858	115625
DSF 1410.03 AHV	374Z-04400	112042
DSF 1610.00 AHV	374Z-03942	111500
DSF 1610.00 ATV	374Z-03941	111500
DSF 1610.00 ATV S167	374Z-04784	111500 S167
DSF 1610.02 AHV	374Z-04762	112159
DSF 1610.12 ATV L=70mm	374Z-05450	114133
DSF 1810.00 AHV	374Z-03887	110830
DSF 1810.00 A1HV	374Z-05261	110830
DSF 1810.00 ATV	374Z-03886	110830
DSF 1810.02 ATV	374Z-04339	111849
DSF 1810.04 AHV	374Z-04987	112683
DSF 1810.05 AHV	374Z-04988	112685
DSF 1810.08 AHV	374Z-05169	113134
DSF 2210.00 AHV	374Z-03873	110831
DSF 2210.00 ATV	374Z-03888	110831
DSF 2210.03 ATV	374Z-05767	115268

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Temperature Operating temperature of the sensor:

- Version H: -40° ... +125°C
- Version T: -25° ... +85°C

Reliability The following MTTF and failure rates were computed based on Siemens SN29500 and valid for an operating temperature of 60°C. They include the electrical failure modes but not the mechanical.

MTTF [hours]	Failure rate [FIT]
3'177'000	314.8

Connection type

Sensor type	Jaquet part number of connector
DSF 1210.00 AHV	820A-35921
DSF 1210.00 ATV	820A-35921
DSF 1210.01 AHV	According to sensor drawing
DSF 1410.00 AHV	820A-35731
DSF 1410.00 AHV S148 IG=100mm	820E-31142
DSF 1410.00 ATV	820A-35731
DSF 1410.00 ATV S148/1 IG=60mm	820A-35731
DSF 1410.02 AHV L=100mm	820E-31142
DSF 1410.02 AHV L=140mm	820E-31142
DSF 1410.02 AHV L=220mm	820E-31142
DSF 1410.02 AHV L=70mm	820E-31142
DSF 1410.03 AHV	820P-36090
DSF 1610.00 AHV	820A-35731
DSF 1610.00 ATV	820A-35731
DSF 1610.00 ATV S167	820A-35731
DSF 1610.02 AHV	820E-31142
DSF 1610.12 ATV L=70mm	820E-31142
DSF 1810.00 AHV	820A-35731
DSF 1810.00 A1HV	820A-37243
DSF 1810.00 ATV	820A-35731
DSF 1810.02 ATV	820A-36648
DSF 1810.04 AHV	820E-36488
DSF 1810.05 AHV	820E-36488
DSF 1810.08 AHV	820P-36090
DSF 2210.00 AHV	820A-35731
DSF 2210.00 ATV	820A-35731
DSF 2210.03 ATV	820E-31142
DSF 2210.04 ATV	820E-31142
DSF EH10.07 A1HV	820A-36648
DSF EH10.08 A1HV	820A-36648
DSF EH10.17 ATV	830E-37864
DSF EH10.18 AHV	385E-64991

Connectors

Jaquet connector code	Protection Class	Manufacturer code
385E-64991	IP66	mates with straight plug MS 3106A-10SL-3S
820A-35731	IP50	ERA-2S-304-CLL (LEMO)
820A-35732	IP50	FFA-2S-304-CLA L42 (LEMO)
820A-35921	IP50	FFA-0S-304-CLA-L42 (LEMO)
820A-36648	IP67	M12x1 D=16/14,5x17,5 (ESCHA)
820A-37243	IP50	FFA-2S-304-CLA-L82 (LEMO)
820E-31142	IP67	MS3102A-10SL-3P/H 097 (MIL-C-5015)
820E-36488	IP67	MS3102A-10SL-3P-B (MIL-C-5015)

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820E-37864	IP67	MAC-3MR-2-SS
820P-36090	IP65	GSA 3000 (Hirschmann)

Further Information

Safety	All mechanical installations must be carried out by an expert. General safety requirements have to be met.
Connection	<p>The sensors must be connected according to sensor drawing.</p> <p>Sensor wires are susceptible to radiated noise. Therefore, the following points have to be considered when connecting a sensor:</p> <p>The sensor wires must be laid as far as possible from large electrical machines. They must not run parallel in the vicinity of power cables.</p> <p>The maximum permissible cable length is dependent upon the sensor voltage, the cable routing, along with cable capacitance and inductance. However, it is advantageous to keep the distance between sensor and instrument as short as possible. The sensor cable may be lengthened via a terminal box located in an IP20 connection area in accordance with EN 60529.</p>
Installation	<p>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. 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.</p> <p>A solid and vibration free mounting of the sensor is important. Eventual sensor vibration relative to the pole wheel can induce additional output pulses.</p> <p>The sensors are insensitive to oil, grease etc. and can be installed in arduous conditions. 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 signals is not influenced by the air gap..</p>
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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