

CERTIFICATE

Environmental Testing

According to DIN EN 50155:2007

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Applicants name	JUMO GmbH & Co. KG
Address	Moritz-Juchheim-Straße 1, 36039 Fulda, Germany
Manufacturer	JUMO GmbH & Co. KG
Address	Moritz-Juchheim-Straße 1, 36039 Fulda, Germany
Product description	Pressure sensor JUMO MIDAS S06 with output signal 4...20 mA
Trademark	JUMO
Model and/or type list	Railway application

Applied tests to JUMO MIDAS S06 / 401011

Test	Standard	Result
1 Damp heat cyclic 25 °C / 55 °C, 95 % r.H., 2 cycles à 24 h	EN 60068-2-30:2005	Passed
2 EMC	EN 50121-3-2:2006 EN 61000-4	
Electrical fast transient burst +/- 2 KV, 5/50 ns, 5 kHz	EN 61000-4-4:2004	Passed
RF conducted disturbances 10 V RMS, 0.15 to 80 MHz, 80 % AM 1 kHz	EN 61000-4-6:2009	Passed
Electrostatic discharge +/- 6 KV contact, +/- 8 KV air	EN 61000-4-2:2009	Passed
Radiated electromagnetic field 80 to 2500 MHz; 20 V/m	EN 61000-4-3:2006 +A1:2008	Passed
Transient emissions 30 to 230 MHz; 40 dB (µV/m) 230 MHz to 1 GHz; 47 dB (µV/m)	EN 55011:2009 +A1:2010	Passed
SURGE +/- 2 KV (42 ohm), line to earth +/- 1 KV (42 ohm), line to line	EN 61000-4-5:2006	Passed

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Test	Standard	Result
3 Insulation test, 500 V DC	EN 50155:2007	Passed
4 Electric strength, 500 V AC, 1 min.	EN 50155:2007	Passed
5 Vibration and shock test	EN 61373:2010	
Half sine pulse Acceleration 50 m/s ² , 24 ms, 18 shocks (3 each positive and negative in the corresponding direction)	EN 61373:2010 Cat. 1B	Passed
Simulated lifetime test RMS acceleration 5.72 m/s ² , frequency range 5 Hz ≤ f ≤ 150 Hz, 5 hours per orientation	EN 61373:2010 Cat. 1B	Passed
Broadband noise RMS acceleration 1.0 m/s ² , frequency range 5 Hz ≤ f ≤ 150 Hz, approx. 10 minutes per orientation	EN 61373:2010 Cat. 1B	Passed
6 IP66 (M12 circular connector according to IEC 61067-2-101) P65 (with valve connector, DIN EN 175301-803 Form A)	EN 60529:1991 + A1:2000	Passed
7 Accelerated ageing 1.000.000 pressure cycles, 0 to 16 bar, 8 Hz		Passed

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 Product Management Sensors