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**MORE THAN SENSORS
AND AUTOMATION**

Certificate

Railway application According to EN 50155:2021

Manufacturer Address	JUMO GmbH & Co. KG Moritz-Juchheim-Straße 1, 36039 Fulda, Germany
Product description Model and/or type	Differential pressure transmitter 401050 ¹⁾ + extra code 950 railway application

Classification			
Nominal voltage:	DC 24 V	Fast temperature change class:	H1
Power supply interruption class:	S1	PCB coating class:	PC1
Power supply switching class:	C1	Mechanical category/class:	1/B
Operation temperature class:	OT3	Lifespan:	L2
Switching temperature class:	ST0	Altitude class:	A1

Tests performed			
	Test and requirements	Standard	Result
1	Visual inspection	EN 50155:2021	Passed
2	Performance Test	EN 50155:2021	Passed
3	DC power supply test $0.6 \cdot U_{Nenn}$ $1.4 \cdot U_{Nenn}$	EN 50155:2021 EN 61000-4-29:2000	Passed
4	Low temperature test $-25 \text{ }^\circ\text{C}$, 2 h	EN 50155:2021 EN 60068-2-1:2007	Passed
5	Dry heat test $+70 \text{ }^\circ\text{C}$, 8 h	EN 50155:2021 EN 60068-2-2:2007	Passed
6	Low temperature storage test	Test on inquiry	---
7	Insulation test DC 500 V, $R > 20 \text{ M}\Omega$ AC 500 V, 1 min	EN 50155:2021	Passed
8	Cyclic damp heat test $+25/+55 \text{ }^\circ\text{C}$, 93 % r.h., 2x24h	EN 50155:2021 EN 60068-2-30:2005	Passed
9	Electromagnetic compatibility test (EMC)	EN 50121-3-2:2016	Passed
	EMC: Emission	EN 50121-3-2:2016 EN 61000-6-4:2007+A1:2011	Passed
	EMC: Immunity ESD $\pm 6 \text{ kV Contact}$; $\pm 8 \text{ kV Air}$	EN 50121-3-2:2016 EN 61000-4-2:2009	Passed

1) Output 4..20mA only

2) For electrical connection M12x1

JUMO GmbH & Co. KG

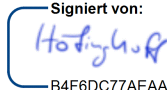
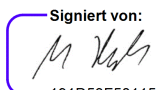
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#	Test and requirements	Standard	Result
	EMC: Immunity RF-Field 80-1000 MHz, 20 V/m, 1400-2000 MHz, 10 V/m 2000-2700 MHz, 5 V/m 5100-6000 MHz, 3 V/m	EN 50121-3-2:2016 EN 61000-4-3:2006+A1:2008+A2:2010	Passed
	EMC: Immunity Burst ±2 kV, 5 kHz	EN 50121-3-2:2016 EN 61000-4-4:2012	Passed
	EMC: Immunity Surge ±1 kV Line-Line ±2 kV Line-Earth	EN 50121-3-2:2016 EN 61000-4-5:2014	Passed
	EMC: Immunity Conducted-RF 0.15-80 MHz, 10 V	EN 50121-3-2:2016 EN 61000-4-6:2014	Passed
10	Shock and vibration test	EN 61373:2010	Passed
	Broadband random noise 5-150 Hz, 1.01 m/s ² , ASD 0.03 (m/s ²)/Hz, 10 min	EN 61373:2010 EN 60068-2-64:2008	Passed
	Simulated Lifetime 5-150 Hz, 5.72 m/s ² , ASD 0.964 (m/s ²)/Hz, 5 h	EN 61373:2010 EN 60068-2-64:2008	Passed
	Shock ±50 m/s ² , 24 ms, 3 Shocks	EN 61373:2010 EN 60068-2-27:2009	Passed
11	Enclosure protection test (IP-Code) IP67 ²⁾	EN 60529:1991+A2:2013/AC:2019	Passed
12	Stress screening test	Test on inquiry	---
13	Rapid temperature variation test	Test on inquiry	---
14	Salt mist test	Test on inquiry	---
15	Fire behaviour of materials	Test on inquiry	---

Test laboratories used:	for test no.:
Internal laboratory JUMO	1, 2, 4, 5, 11-15
Internal accredited laboratory JUMO (IEC 17025)	3, 6-10
External accredited laboratory (IEC 17025)	

JUMO GmbH & Co. KG, Moritz-Juchheim-Strasse 1, 36039 Fulda, Germany	
Date	Signature
Fulda, May 5, 2025	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Signiert von:</p>  <p>o.b.o. Dr.-Ing Jan-Florian Höfinghoff Test laboratory</p> </div> <div style="text-align: center;"> <p>Signiert von:</p>  <p>o.b.o. Matthias Halsch Product management</p> </div> </div>

1) Output 4..20mA only
 2) For electrical connection M12x1