

MT009D09RH-ATEX

865 – 956 MHz 8.5 dBic RHCP Reader Antenna

Electrical			
Regulatory Compliance	RoHS, CE 0682, ATEX DIRECTIVE 94/9EC , GROUP I, M1, ia.		
Frequency	865 – 956 MHz		
Gain	865 – 870 MHz	902 – 928 MHz	950 – 956 MHz
	7.0 dBic min 8.5 dBic max	7.0 dBic min 9.5 dBic max	7.0 dBic min 9.0 dBic max
VSWR	1.2:1 typ, 1.5:1 max @ 865 – 928 MHz 1.5:1 typ , 1.7:1 max @ 950 – 956 MHz		
3 dB Beam Width	65° typ		
Polarization	RHCP		
Axial Ratio	865 – 870 MHz	902 – 928 MHz	950 – 956 MHz
	2.5 dB max	1 dB typ, 1.5 dB max	3.0 dB max
F/B Ratio	-18 dB max		
Input Impedance	50 ohm		
Input Power	6 W max		
Lightning Protection/ATEX*	DC Grounded		

Mechanical	
Dimensions L x W x D	305 x 305 x 22.5 mm max
Weight	1.2 Kg max
Connector	TNC JACK Reverses Polarity
Radome	PC Conductive
Base Plate	Aluminum with chemical conversion coating

Environmental				
Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72 h	-55 °C	
High Temperature	IEC 68-2-2	72 h	+71 °C	
Temp. Cycling	IEC 68-2-14	1 h	-45°C to +70°C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 60529			IP67*
Solar Radiation	ASTM G53	1000 h		
Flammability	UL 94			Class V0
Salt Spray	IEC-68-2-11 Ka	168 h		
Ice and Snow				25 mm Radial
Wind Speed:				
Survival				220 Km/h
Operation				160 Km/h
Wind Load Survival:				
Front Thrust				26.6 kg
Side Thrust				2.0 kg
Thermal Endurance to heat	IEC 60079 – 0 Section 26.8	4 weeks	80°	
Thermal Endurance to cold	IEC 60079 – 0 Section 26.9	24 h	-60°	
Resistance to oils, grease and hydraulic liquids	IEC 60079 – 0 Section 26.11			
Resistance to light	IEC 60079 – 0 Section 26.10.1			
Earth continuity	IEC 60079 – 0 Section 26.12			
Surface Resistance – charging tests	IEC 60079 – 0 Section 26.13 Section 26.14			

*For outdoor installations that require mounting the antenna horizontally facing ground, contact MTI for the dedicated P/N

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