

customer or the user of the device should assure that it is used in such an environment.	
EMC	Electromagnetic Environment – guidance
RFI:	Portable and mobile RF communications equipment should be used no closer to any part of the Smart industrial cables, than the recommended separation distance calculated from the equation applicable to the frequency of the emission.
RFI:	Recommended separation distances:
	$d = 1.2 \cdot \sqrt{P}$
	$d = 2.0 \cdot \sqrt{P}$
RFI:	80 MHz to 800MHz
	$d = 1.2 \cdot \sqrt{P}$
	800 MHz to 2.5GHz
	$d = 2.5 \cdot \sqrt{P}$
	where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).
	Field strengths from fixed RF transmitters, as determined by an electromagnetic survey, should be less than the compliance level in each frequency range.

Interference may occur in the vicinity of equipment marked with the following symbol:



is affected by absorption and reflection from structures, objects and people.

• telephones and land mobile radios, amateur radio, AM and FM radio broadcast (magnetic) environment due to fixed RF transmitters, an electromagnetic site survey is used exceeds the applicable RF compliance level above, the device should be reassured may be necessary, such as re-orienting or relocating the device.

m.

ations equipment and the device

distance according to frequency of transmitter (m)		
80 MHz (in ISM band radio bands)	80 MHz to 800 MHz $d = 1.2 \cdot \sqrt{P}$	800 MHz to 2.7 GHz $d = 2.3 \cdot \sqrt{P}$
$2.0 \cdot \sqrt{P}$		
0.2	0.12	0.23
0.632	0.38	0.73
2	1.2	2.3
6.32	3.8	7.3

20	12	23
separation distance d in meters (m) can be estimated using the equation $P_t = \frac{W}{4\pi d^2}$ where P_t is the power density in watts (W) according to the transmitter manufacturer. e.g. applies to the transmitter power density in watts (W) according to the transmitter manufacturer. is affected by absorption and reflection from structures, objects and people.		
customer or the user of the device should assume that it is used in such an		
a)	b)	c)
Modulation	Modulation	Distance
	(W)	(m)
400	Pulse modulation	1.8
	b)	0.3
	c)	27
		Immunity
		Test Level
		(V/m)

460, FRS 460	15 Hz			
	FM c) ± 5 kHz deviation 1 kHz sine	2	0.3	28
ind 13, 17	Pulse modulation b) 217 Hz	0.2	0.3	9
00/900, 800, 20, 850, ind 5	Pulse modulation b) 15 Hz	2	0.3	28
800,	Pulse modulation	2	0.3	28

1900, 900	b) 217 Hz			
ind 1, 3, 4, 25,				
th,	Pulse modulation b) 217 Hz	2	0.3	28
b/g/h, 450, ind 7				
802.11 a/h	Pulse modulation b) 217 Hz	0.2	0.3	9

because while it does not represent actual modulation, it would be worst case.

In Risk Management, and using higher Immunity Test Levels that are appropriate for Immunity Test Levels shall be calculated using the following equation:

IN 165

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