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Antenna barrier - BAR-ANT-N-N-EX - 2702198

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Antenna barrier for installation in Ex zone 2, separates and transmits RF signals with intrinsic safety (Ex i) to an antenna in zone 0, 1 or 2, 0.7 GHz ... 6 GHz frequency range, N (female) -> N (female), ATEX/IECEx approval

Product Description

By using the antenna barrier, HF outputs from wireless modules can be designed with intrinsic safety. The antenna barrier limits the ignition energy in the event of an error. The antenna barrier is ATEX and IECEx-certified and can be installed in zone 2 or in the safe area. The antenna barrier enables the inexpensive use of selected standard antenna in Ex zones 0, 1, and 2. The antenna barrier covers the 0.7 GHz ... 6 GHz frequency range. Selected standard antennas from the wireless accessories range can be connected.

Why buy this product

- Compact housing design
- International approvals (ATEX, IECEx)
- Use of standard antennas in the hazardous area of zone 0, 1, and 2
- Universal use (frequency range of 0.7 ... 6 GHz)
-
- Inexpensive solution, as there is no need for expensive special antennas

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 033730

Technical data

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

General

Connection method	N (female)
	N (female)

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Technical data

General

Frequency range	700 MHz ... 6000 MHz
Impedance	50 Ω
Maximum HF output power P_i	2 W
Maximum error voltage U_m	253 V AC/DC
Maximum capacity	5.64 nF
Test voltage	2.1 kV AC (50 Hz / 2 s)
Conformance	CE-compliant
IECEx	[Ex ia Ma] I
	[Ex ia Ga] IIC
	[Ex ia Da] IIIC
	Ex nA [ia Ga] IIC T6 Gc X

Attenuation

868 MHz	< 1.2 dB (868 MHz)
900 MHz	< 0.9 dB (900 MHz)
2.4 GHz	< 0.2 dB (2.4 GHz)
5 GHz	< 0.5 dB (5.2 GHz)

Material data

Housing material	Nickel-plated brass
Housing surface material	Nickel
Inner conductor material	CuZn
Inner conductor surface material	Gold
Insulation body material	PTFE
Seal material	Silicon
Spring contact material	CuSn
Contact surface material	Au

Standards and Regulations

Conformance	CE-compliant
ATEX	# I (M1) [Ex ia Ma] I
	# II (1) G [Ex ia Ga] IIC
	# II (1) D [Ex ia Da] IIIC
	# II 3 (1) G Ex nA [ia Ga] IIC T6 Gc X
IECEx	[Ex ia Ma] I
	[Ex ia Ga] IIC
	[Ex ia Da] IIIC
	Ex nA [ia Ga] IIC T6 Gc X

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Classifications

eCl@ss

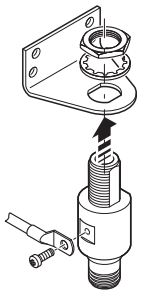
eCl@ss 5.1	27142001
eCl@ss 6.0	27142001
eCl@ss 8.0	19070102

ETIM

ETIM 5.0	EC000416

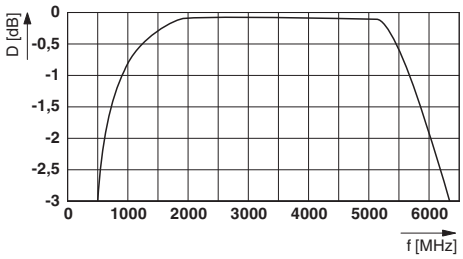
Drawings

Schematic diagram



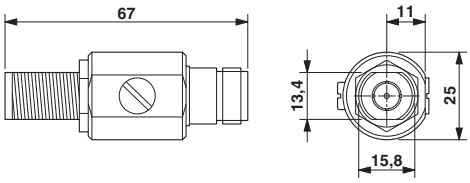
Mounting plate

Diagram



Attenuation

Dimensional drawing



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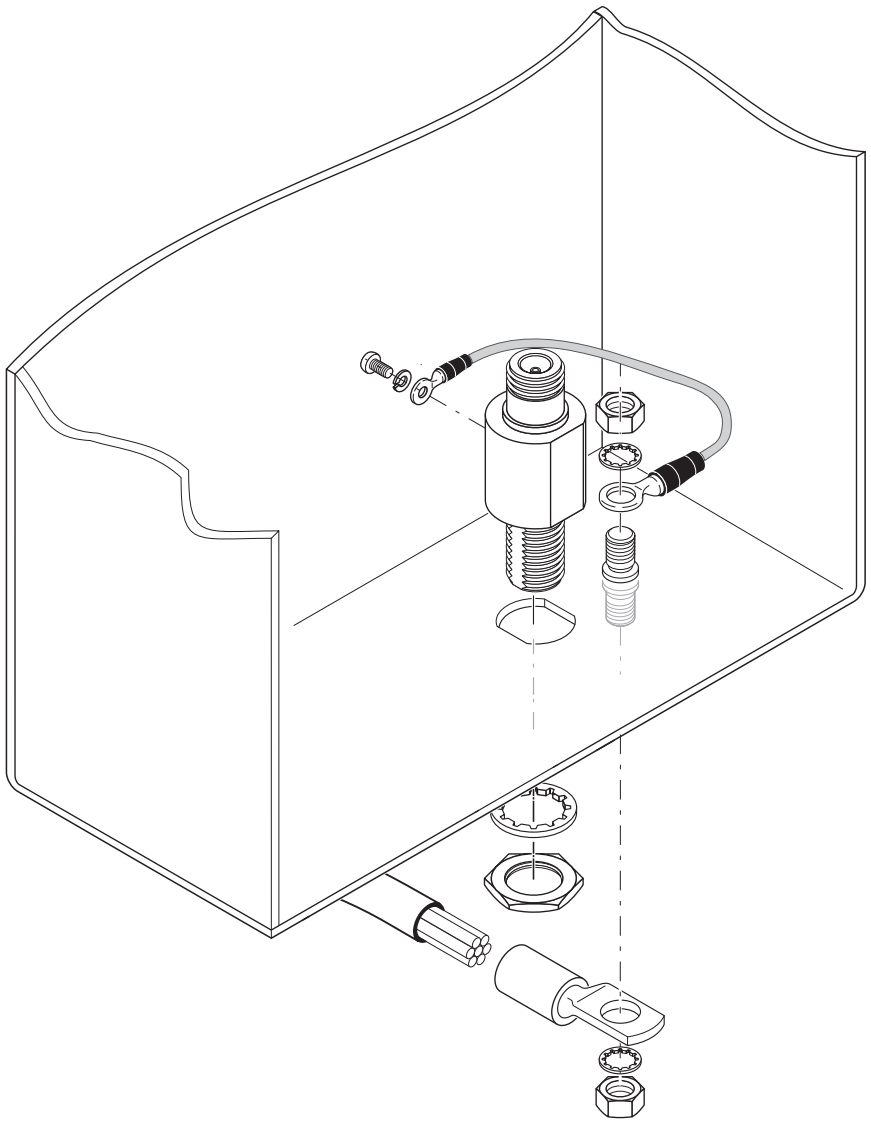
Schematic diagram



Control cabinet feed-through

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