

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

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Antenna barrier for control cabinet feed-through, type of protection: Ex i, degree of protection: IP65, barrier installation: Zone 2 / 22, antenna installation: in dust and gas Ex area, frequency range: 0.3 GHz ... 6 GHz, connection: 2 x N (female), ATEX, EAC Ex and 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.

Your advantages

- 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 0.3 ... 6 GHz)
- Supply of all necessary certified components – including as a system solution
- Inexpensive solution, as there is no need for expensive special antennas



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 033730
GTIN	4055626033730
Weight per Piece (excluding packing)	173.200 g
Custom tariff number	85177000
Country of origin	Taiwan

Technical data

Dimensions

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 75 °C

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
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General

Connection method	N (female)
	N (female)
Frequency range	0.3 GHz ... 6 GHz
Impedance	50 Ω
Input power P _i	≤ 2 W
Maximum error voltage U _m	253 V AC/DC
Maximum capacity	5.64 pF
Test voltage	2.1 kV AC (50 Hz / 2 s)

Attenuation

400 MHz	< 3.5 dB (400 MHz)
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

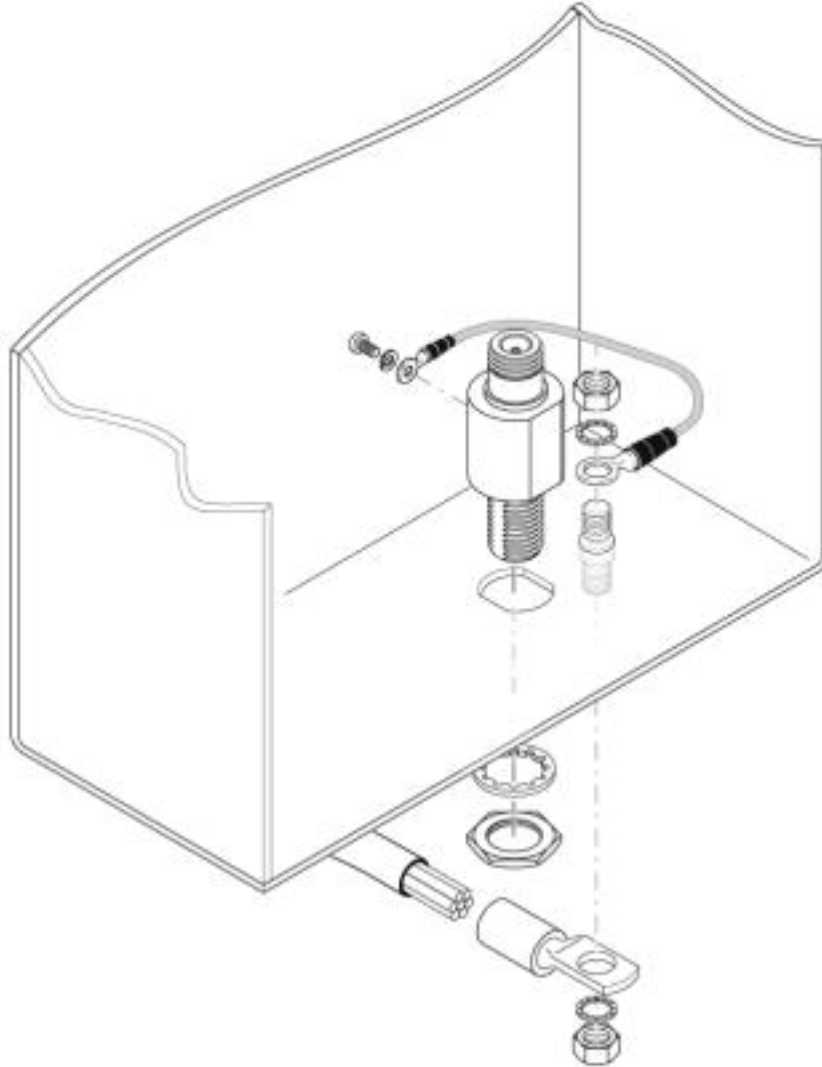
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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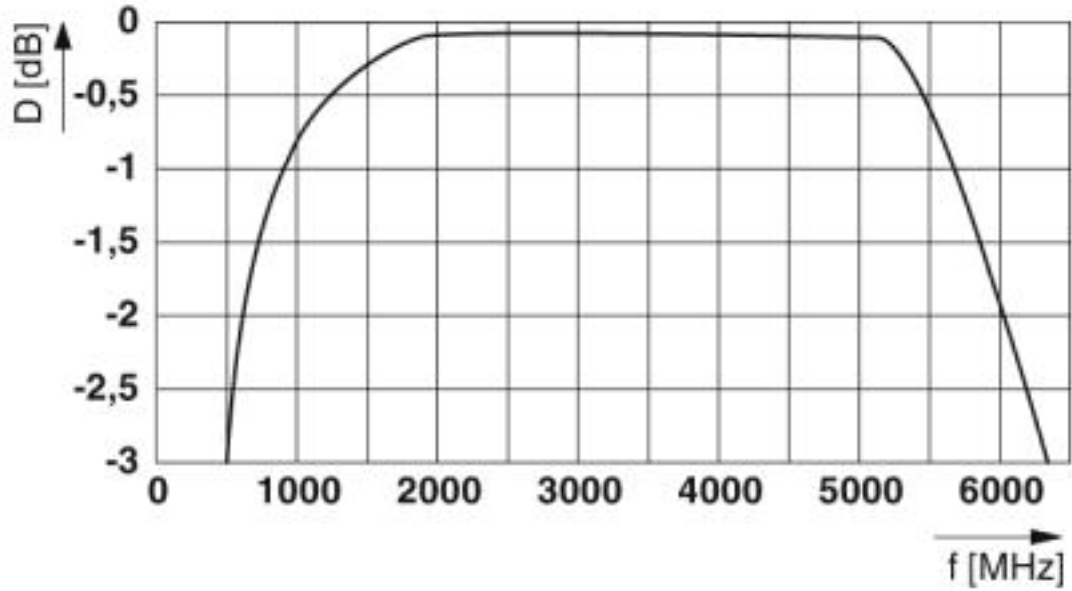
Schematic diagram



Control cabinet feed-through

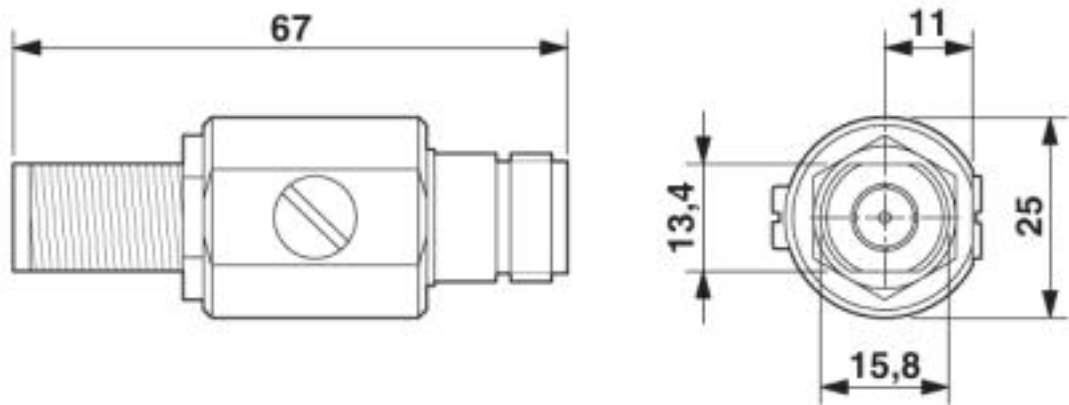
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Diagram



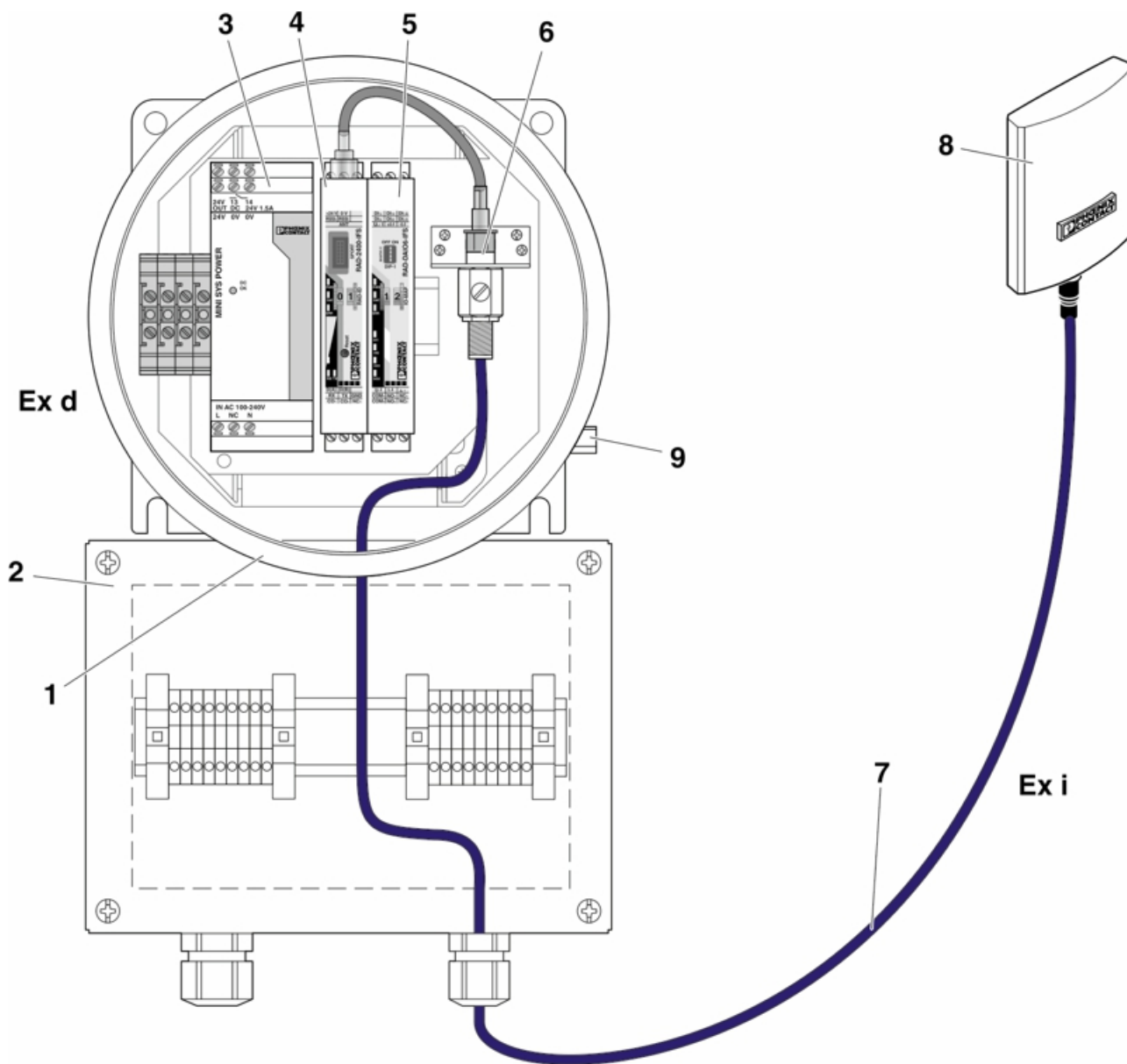
Attenuation

Dimensional drawing



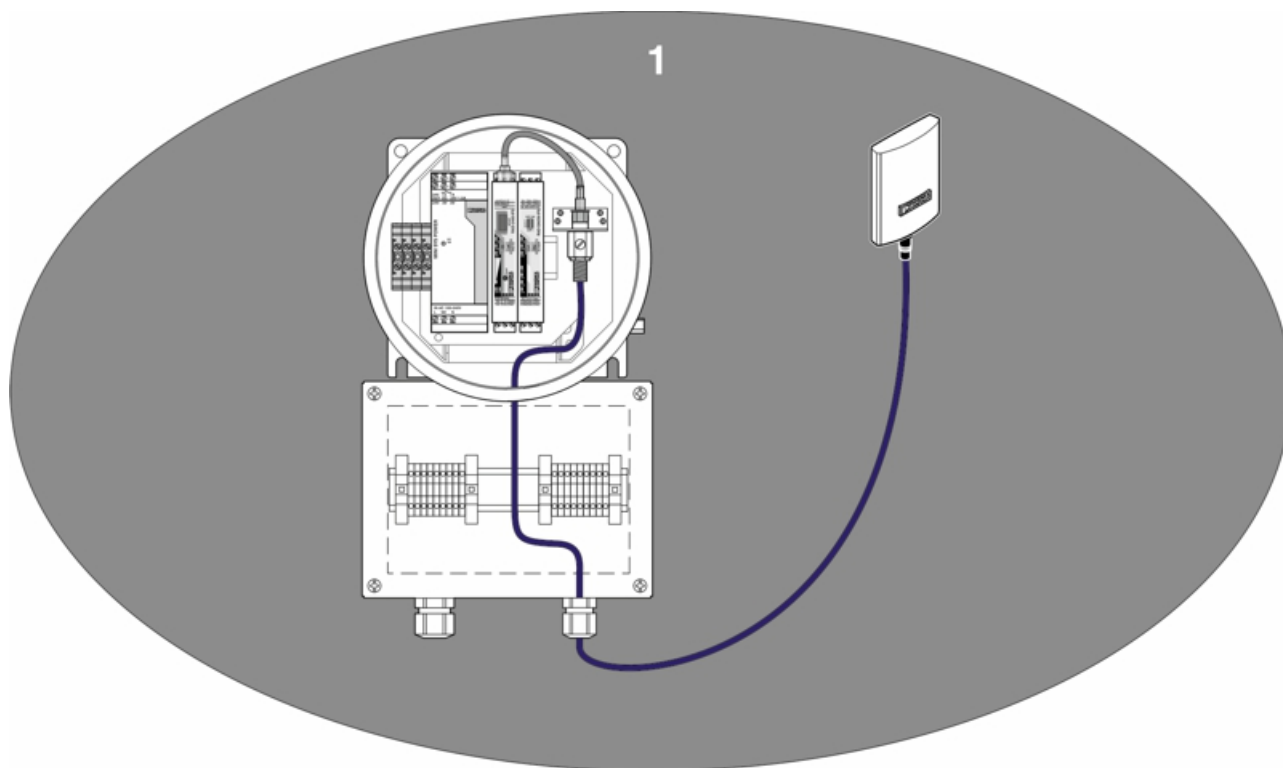
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Application drawing



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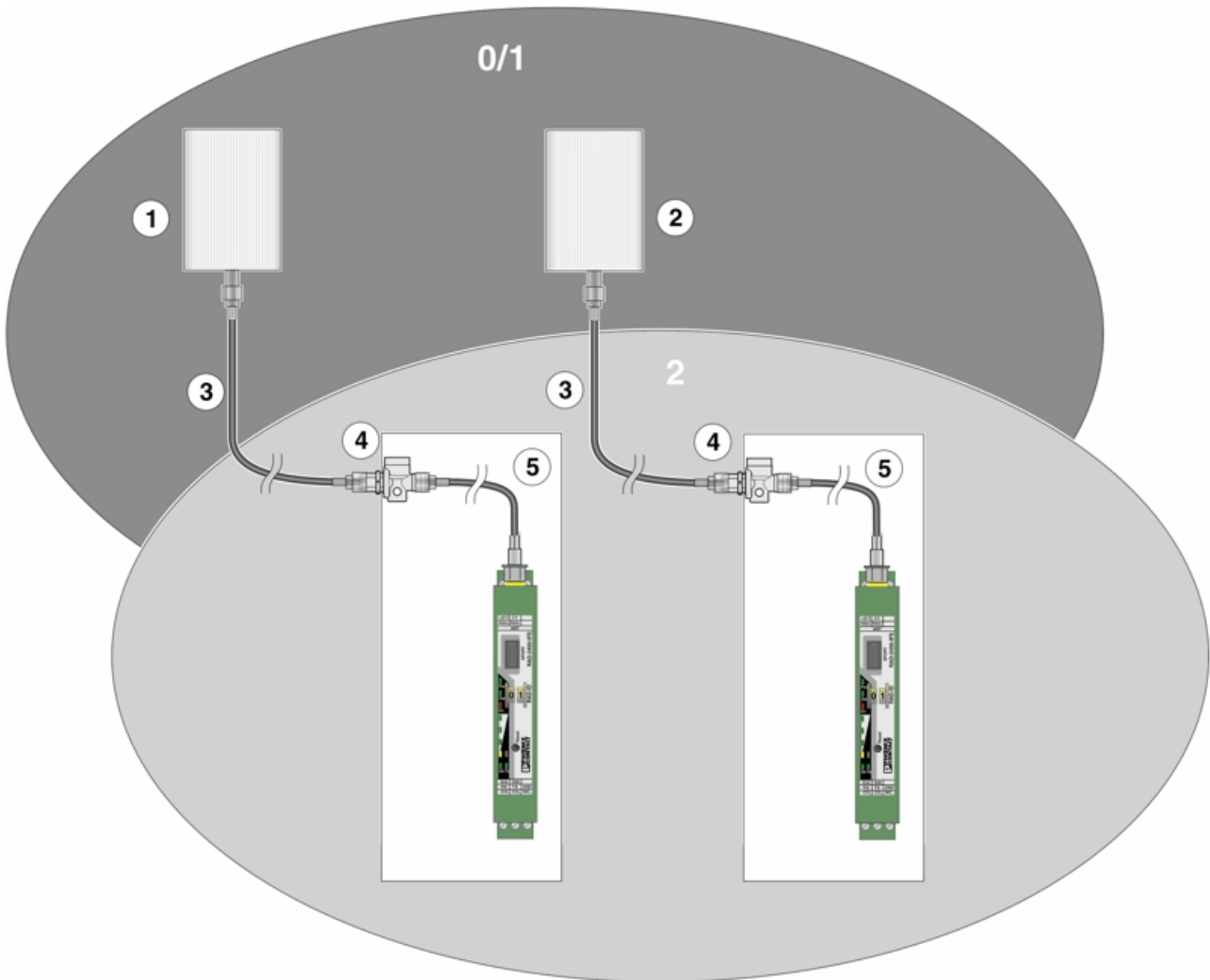
Application drawing



Installing the devices and antennas in zone 1

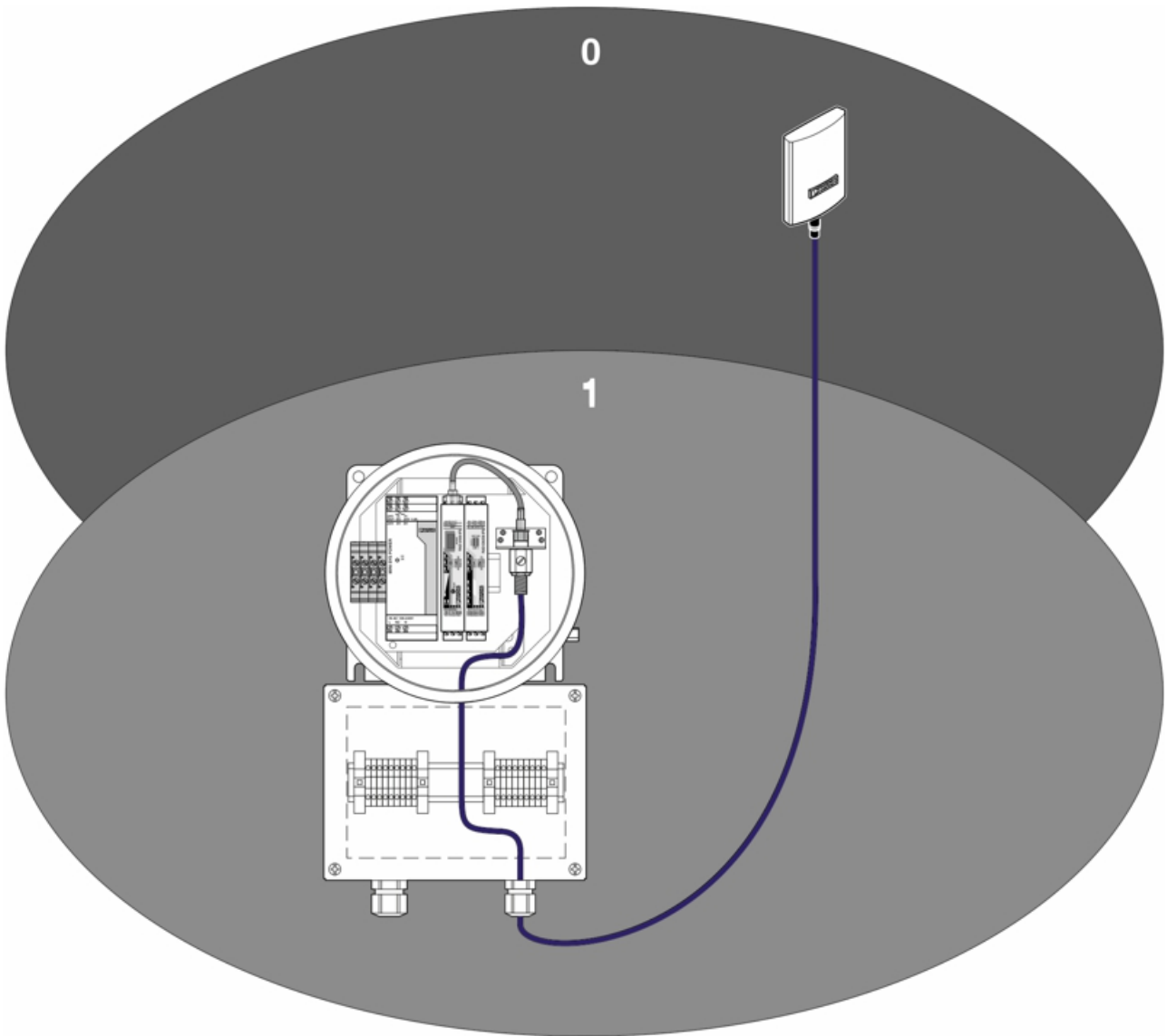
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Application drawing



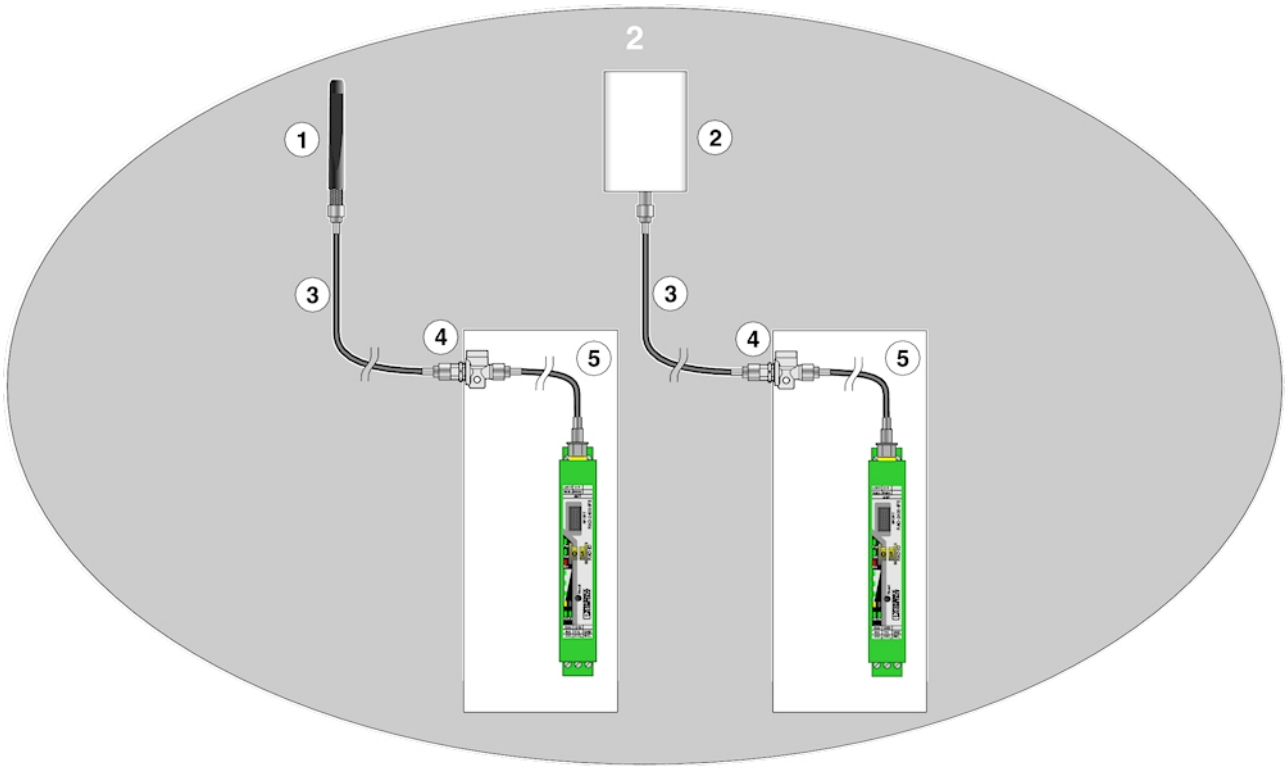
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Application drawing



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Application drawing



<https://www.phoenixcontact.com/gb/products/2702198>

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Classifications

eCl@ss

eCl@ss 4.0	27142000
eCl@ss 5.0	19070100
eCl@ss 5.1	27142000
eCl@ss 6.0	19070100
eCl@ss 7.0	19070102
eCl@ss 8.0	19070102
eCl@ss 9.0	19070417

ETIM

ETIM 5.0	EC001135
ETIM 6.0	EC001135
ETIM 7.0	EC001135

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