

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, 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-certified 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 0.3 GHz ... 6 GHz frequency range. Selected standard antennas from the wireless accessories range can be connected.

Your advantages

- · Compact housing design
- · International approvals
- 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

Commercial data

Item number	2702198
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNC6Z1
Catalog page	Page 393 (C-6-2019)
GTIN	4055626033730
Weight per piece (including packing)	172.8 g
Weight per piece (excluding packing)	160 g
Customs tariff number	85177100
Country of origin	TW



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Technical data

Notes

Util	iza	tion	res	tric	tion

CCCex note	Use in potentially explosive areas is not permitted in China.

Product properties

Product type	Coaxial adapter
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Electrical properties

Frequency range	300 MHz 6000 MHz
Test voltage	2.1 kV AC (50 Hz / 2 s)
Impedance	50 Ω
Insulation voltage input/output	265 V AC/DC
	375 V (Peak value)
Maximum error voltage U _m	253 V AC/DC

Connection data

Connection method	N (female)
Connection method	N (female)

Ex data

Safety data

Input power P _i	≤ 2 W (HF input power, 33 dBm, IIC)
	≤ 3.5 W (HF input power, 35.4 dBm, IIB)
	≤ 6 W (HF input power, 37.7 dBm, I, IIA, III)
Max. internal inductance L _i	negligible
Max. internal capacitance C _i	5.64 pF
Max. output power P _o	P _{out} ≤ max. HF output power of the wireless module

Dimensions

Dimensional drawing	57
Height	67 mm
Diameter	25.00 mm

Material specifications

Material Housing	Brass, nickel-plated
Material Inner conductor	CuZn
Material Inner conductor surface	Gold
Material Insulating body	PTFE



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Material Seal	Silicon	
Material Spring contact	CuSn	
Material Contact surface	Au	
Cable/line		

С

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)
5.8 GHz	< 1.8 dB (5.8 GHz)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 (when installed)
Ambient temperature (operation)	-40 °C 75 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Air pressure (operation)	80 kPa 110 kPa

Approvals

CE

Certificate	CE-compliant
ATEX	
Identification	
	⊕ I (M1) [Ex ia Ma] I
Certificate	IBExU 15 ATEX 1064 X
Note	Please follow the special installation instructions in the documentation!
IECEx	
Identification	[Ex ia Ga] IIC
	[Ex ia Da] IIIC
	[Ex ia Ma] I
	Ex ec [ia Ga] IIC T6 Gc
	Ex tc [ia Da] IIIC T80 °C Dc
Certificate	IECEx IBE 15.0006X

Mounting

Assembly instructions	Outdoors and indoors
	Connection-specific attachment plug



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In the installed state, the device is suitable for atmospheres containing gas or dust. Ensure that the HF input socket is in the IP54 housing (zone 2, in accordance with EN/IEC 60079-15) or in the IP6x housing (zone 22, in accordance with EN/IEC 60079-31).



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Classifications

UNSPSC 21.0

ECLASS

ECLASS	S-11.0	19070417
ECLASS	S-12.0	19070417
ECLASS	S-13.0	19070417
ETIM		
ETIM 9.	0	EC001135
UNSPSC		

39121400



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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