



Bullet WirelessHART Adapter

WHA-BLT-F9D0-N-A0-Z1-1



- Installation in Zone 1, 21
- Installation in Class I, II, Division 1
- Installation in Class III
- Ex d housing for Ex d field devices
- Cast aluminum housing
- Loop powered
- Direct mounting on HART or 4 mA ... 20 mA field device
- Encapsulated antenna
- Up to 8 field devices in multidrop

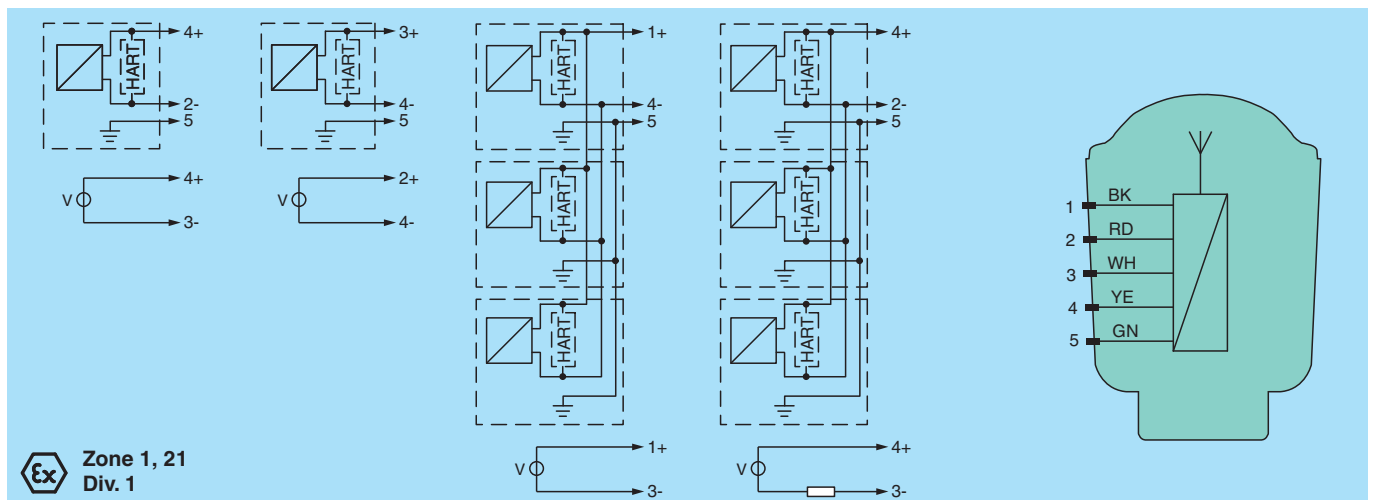


WirelessHART

Function

The device upgrades a conventional HART or 4 ... 20 mA field device with a WirelessHART interface. The supply is ensured via loop power. The adapter with type of protection Ex d can be used directly on a field device with type of protection Ex d. Up to 8 HART field devices can be connected to each other in multidrop mode. The encapsulated antenna allows for use in harsh environments. The device can be programmed with a configuration tool easily (DTM or DD).

Connection



Ex Zone 1, 21
Div. 1

Technical Data

Supply

Rated voltage	U_r	7 ... 32 V DC
Rated current	I_r	< 1 mA , max. 25 mA

Electrical specifications

Output rated operating current	3.2 ... 25 mA
Supply	loop power for field devices voltage: 1 ... 2.5 V DC, adjustable in steps of 0.5 V

Input

Connection	- 5 wires, 600 mm long, exiting from male thread NPT1/2 - 1 external grounding point
HART communication	
Protocol	HART 7.1, backward compatible

Release date: 2021-05-27 Date of issue: 2021-05-27 Filename: 916969_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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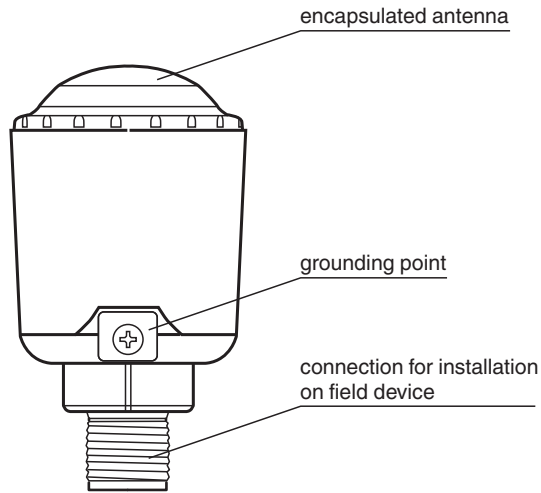
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Technical Data

Number of devices	up to 8 HART field devices (depending on installation)
Output	
Interface	internal antenna
Communication	WirelessHART specifications - physical layer: IEEE 802.15.4.2006 - frequency band: 2.4 GHz (ISM band, licence free) - maximum transmit power: +10 dBm - outdoor transmission range: 235 m - communication standard: WirelessHART acc. to IEC 62591
Directive conformity	
Radio and telecommunication terminal equipment	The usage of 2.4 GHz equipment is bound to local restrictions. Ensure that restrictions allow usage of this product before commissioning.
Directive 2014/53/EU	EN 300 328 V2.1.1:2016 EN 301 489-1 V2.2.0:2017 EN 301 489-17 V3.2.0:2017
FCC CFR47 Part 15 B and C	ANSI C63.4-2003 , FCC ID: X89-WA1101
Conformity	
Degree of protection	IEC 60529:2013
Ambient conditions	
Ambient temperature	temperature class T5: -40 ... 85 °C (-40 ... 185 °F) temperature class T6: -40 ... 75 °C (-40 ... 167 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	max. 100 %
Mechanical specifications	
Degree of protection	IP67
Material	aluminum alloy with polyurethane enamel paint
Mass	460 g
Dimensions	60.8 x 60.8 x 100 mm (l x w x h)
Data for application in connection with hazardous areas	
EU-type examination certificate	FM 17 ATEX 0046 X
Marking	Ⓜ II 2 G Ex db IIC T6...T5 Gb Ⓜ II 2 D Ex tb IIIC T95°C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-1:2014 , EN 60079-31:2014
International approvals	
FM approval	FM 17 NUS 0010 FM 17 US 0191 X
Control drawing	116-0425 (cFMus)
Approved for	XP Class I, II, III, Division 1, Groups A-G Class I, Zone 1, AEx db IIC T6...T5 Gb Zone 21, AEx tb IIIC T95°C Db
CSA approval	FM 17 NCA 0004 FM 17 CA 0102 X
Control drawing	116-0425 (cFMus)
Approved for	XP Class I, II, III, Division 1, Groups A-G Ex db IIC T6...T5 Gb Ex tb IIIC T95°C Db
IECEX approval	
IECEX certificate	IECEX FMG 17.0020X
IECEX marking	Ex db IIC T6...T5 Gb , Ex tb IIIC T95°C Db
Standards	IEC 60079-0:2011 , IEC 60079-1:2014 , IEC 60079-31:2013
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

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Assembly



Accessories

	<p>DTM WirelessHART Adapter "Bullet"</p>	
	<p>AD.*.*.*.*</p>	

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