



Bullet WirelessHART Adapter WHA-BLT-F9D0-N-A0-Z1-1

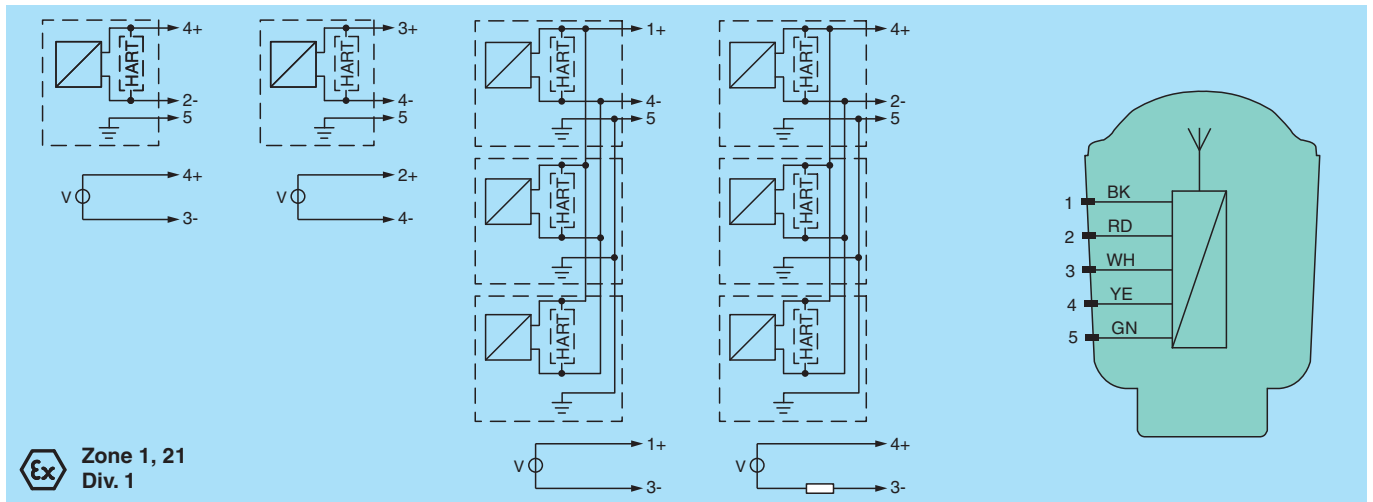
- Installation in Zone 1, 21
- Installation in Class I, II, Division 1
- Installation in Class III
- Ex d housing for Ex d field devices
- Cast aluminum housing
- Loop powered
- Direct mounting on HART or 4 mA ... 20 mA field device
- Encapsulated antenna
- Up to 8 field devices in multidrop



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
Number of devices	up to 8 HART field devices (depending on installation)

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

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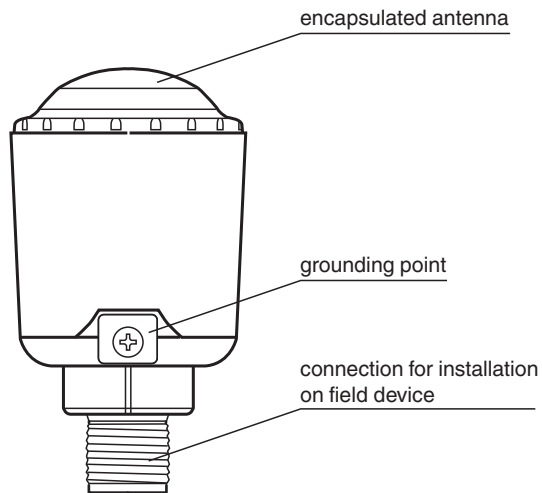


Technical Data

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	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013+A11:2013
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 V1.8.1:2012 EN 301 489-1 V1.9.2:2011 EN 301 489-17 V2.2.1:2012
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 12 ATEX 0021 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 60079-11:2012 , EN 60079-15:2010
International approvals	
FM approval	CoC 3041762(C)
Approved for	Class I, Zone 1, (A)Ex db IIC T6/T5 Gb Class I, Zone 21, (A)Ex tb IIIC T95°C Db Class I, Division 1, Groups A - D Class II, Division 1, Groups E, F, G Class III
IECEx approval	IECEx FMG 12.0005X
Approved for	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	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

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Assembly



Accessories

	DTM WirelessHART Adapter "Bullet"	DTM collection
	AD.*.*.*.*	Adapter

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