



Bullet WirelessHART Adapter WHA-BLT-F9D0-N-A0-Z0-Ex1

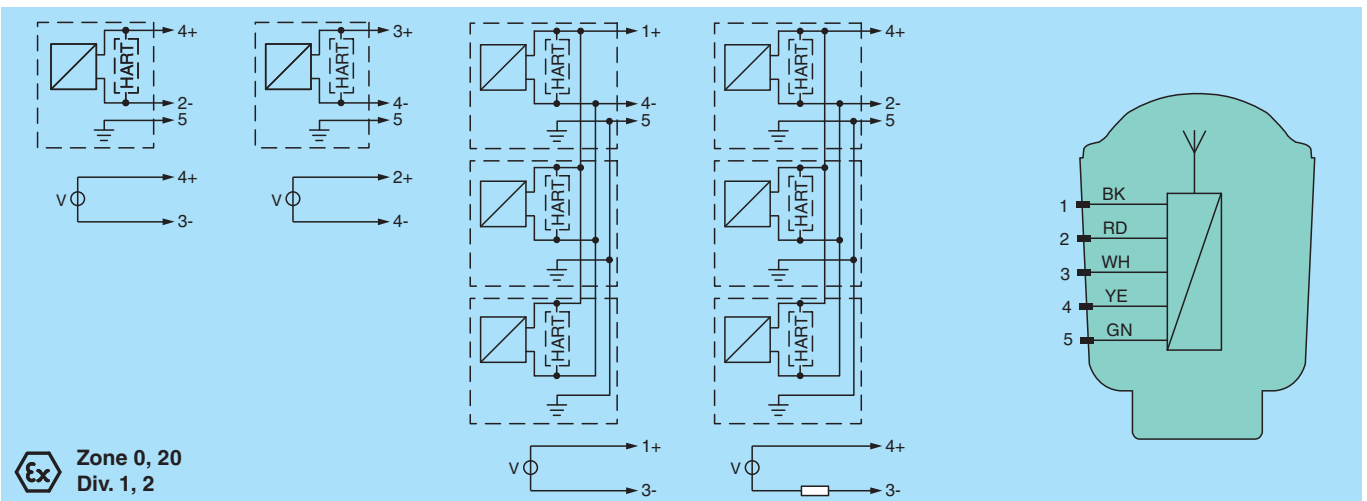
- Installation in Zone 0, 20
- Installation in Class I, II, Division 1
- Installation in Class III
- Installation in Class I, Division 2
- Ex i circuits for Ex i field devices
- Cast aluminum housing
- Loop powered
- Direct mounting on HART or 4 mA ... 20 mA field device
- Encapsulated antenna
- Up to 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. Due to its intrinsically safe circuits, the adapter can be mounted on an intrinsically safe field device or anywhere in the 4 ... 20 mA loop. 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 0, 20
Div. 1, 2

Technical Data

Supply			
Rated voltage	U_r	7 ... 30 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: 2023-01-02 Date of issue: 2023-01-02 Filename: 915361_eng.pdf

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

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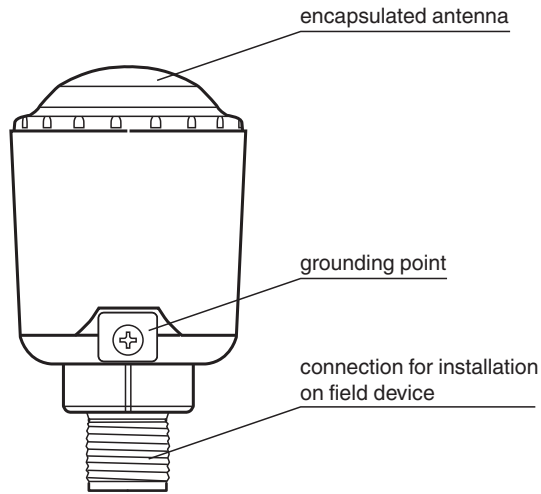


Technical Data



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			
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 11 ATEX 0019 X		
Marking	Ⓢ II 1 G Ex ia IIC T6/T5 Ga Ⓢ II 1 D Ex ia IIIC T95 °C Da		
Supply			
Maximum safe voltage	U _m	30 V DC	
Output			
External capacitance	C _o	22 µF	
Certificate	FM 11 ATEX 0068 X		
Marking	Ⓢ II 3 G Ex nA IIC T6/T5 Gc		
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 3040786(C)		
Approved for	Class I, Zone 0, (A)Ex ia IIC T6/T5 Ga Class I, Zone 2, (A)Ex nA IIC T6/T5 Gc Class I, Zone 20, (A)Ex ia IIIC T95°C Da Class I, Division 1, Groups A - D Class II, Division 1, Groups E, F, G Class III Class I, Division 2, Groups A - D		
IECEx approval	IECEx FMG 11.0010X		
Approved for	Ex ia IIC T6...T5 Ga Ex nA IIC T6/T5 Gc Ex ia IIIC T95°C Da		
Standards	IEC 60079-0:2011 , IEC 60079-11:2011 , IEC 60079-15:2010		
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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