

Type 50 Series

ATEX Exia Head Instructions

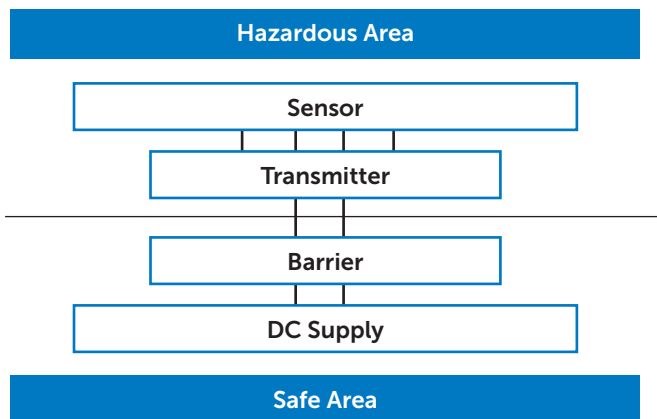


The Type 50 ATEX Exia head is an aluminium alloy or stainless steel connection head with a G $\frac{1}{2}$ " or $\frac{1}{2}$ " NPT process thread and M20 or $\frac{1}{2}$ " NPT cable entry.

It is rated at IP68 and is designed to take a terminal block or temperature transmitter (with or without a digital indicator) using the standard DIN plate fixing of 33mm.

The apparatus must be installed and maintained by competent technicians familiar with the relevant requirements for installation of equipment in potentially explosive atmospheres e.g. EN60079-14, plus any local codes of practice.

Connection Schematic



The Type 50 ATEX Exia Certification has 'Special Conditions for Safe Use.'

- 1 Equipment must be installed such that protection from impact and abrasion is afforded. User must regularly check for signs of damage to exterior finish and replace the equipment should signs of damage be apparent.
- 2 The equipment may be installed with one of the ATEX Exia certified devices listed on the certificate in conjunction with an RTD or Thermocouple, and supplied from a suitably certified Zener barrier or galvanic isolator with the appropriate parameters. The equipment may be used as a simple junction box.
- 3 Where the certification of the transmitter device requires special measures to be taken, due to failure to meet dielectric strength requirements, then the user must take necessary measures, as indicated on the device certification.
- 4 When installing any of the devices listed on the certificate any additional special conditions required by the device must be followed.
- 5 A full copy of the certificate Sira 11ATEX2153X and Transmitter certification is available from H&B Sensors Ltd upon request or available to download via the relevant websites:

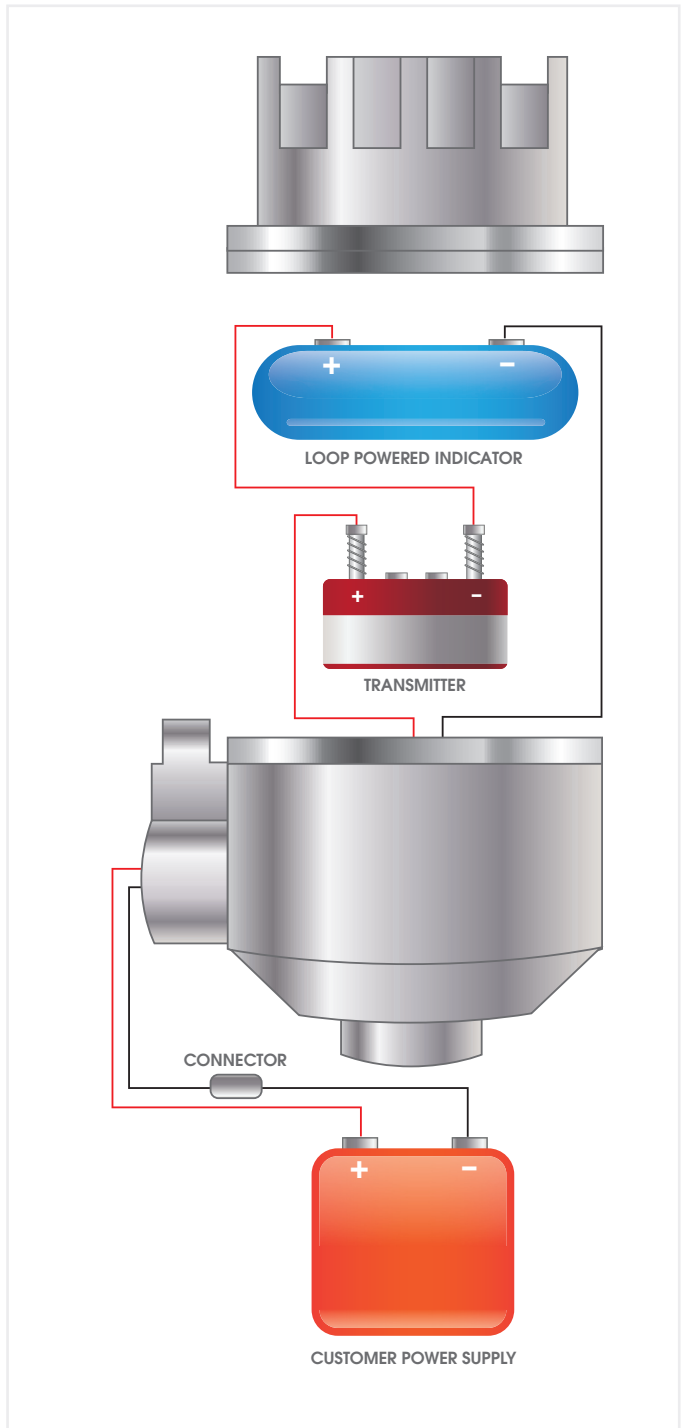
- H&B Sensors Ltd – www.hbsensors.com
- Emerson Rosemount - www.rosemount.com
- Status Instruments Ltd - www.status.co.uk
- Baumer Ltd - www.baumer.com
- Wika Instruments Ltd – www.wika.com
- PR Electronics Ltd - www.prelectronics.com

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Wiring Instructions for Loop Powered Indicator

- 1 After removing the screwed cover of the instrument connection head locate the black wire (negative) with connector attached:
- 2 Connect the loose black wire (negative) via the connector to the negative power supply.
- 3 Connect the positive power supply to the positive terminal 1 (one) of the transmitter.
- 4 After connecting the 2 wires (steps 2 & 3), replace the screwed housing cover and tighten the locking screw.



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EC Declaration of Conformity

H&B Order #: **Customer Order #:**

Serial #:

In accordance with EC Directive 94/9/EC:

H&B Sensors Ltd
Odyssey House
Durban Road
Bognor Regis
West Sussex
PO22 9RH
UNITED KINGDOM

Declare the following product:

Type 50 Series ATEX Exia Head Assembly...

has been certified by H&B Sensors Ltd to the relevant EC Directive 94/9/EC. ATEX Directive Code II 1 GD. H&B Sensors Ltd have been quality assessed and certified by Sira 0518 Quality Assurance Notification Sira 00ATEXM050 and issued with EC Type Examination Certificate Sira 11ATEX2153X against the following European Standards:

- EN 60079-0: 2006
- EN 60079-0:2009 (Used for guidance in respect of marking)
- EN 60079-11:2007
- EN 60079-26:2007
- EN 61241-11:2006

To ensure the equipment meets the requirement of all the above, the product must be installed with the relevant barriers and isolators in accordance with the instructions issued with the relevant transmitter specified on the certificate.

A copy of the certificate Sira 11ATEX2153X is available on request or can be downloaded from our web site:
www.hbsensors.com

Signed for on behalf of H&B Sensors Ltd:

Name	<input type="text"/>	Position	<input type="text"/>
Signature	<input type="text"/>	Date	<input type="text"/>