

## Fireray® 3000 Exd

### Flameproof Optical Beam Smoke Detector

The Fireray® 3000 Exd is ideally suited for the protection of large areas, with potentially explosive atmospheres, against smoking fires. Fireray® 3000 Exd comprises an infrared transmitter and a receiver, both of which are ATEX-certified for use in Group 2 hazardous areas. There is a separate, safe area, wall-mounted remote/low level control unit to allow adjustment and testing from a convenient non-hazardous location.

The product is designed for large enclosures within oil rigs, refineries, ordnance stores and similar premises. It provides an early warning of smouldering or strongly smoke-generative fires, which may not be picked up by flame detectors installed in many hazardous areas.

#### **Features**

- Separate transmitter and receiver unit certified to Exd
- Allows for 2 Detectors per System Controller
- Range 10 to 80 metres, (33ft to 262ft) configurable per set of Detectors
- Integral Laser Alignment in Receiver
- 2-wire Interface between Controller and Receiver
- Separate Fire and Fault Relays per Detector
- Remote/low Level Controller with LCD display (Safe Area)
- Programmable Sensitivity and Fire/Fault delay
- Contamination Compensation for dust and building movement
- Multiple cable gland knockouts for ease of wiring
- Transmitter can be powered from Controller
- Complies with ATEX
- Light Cancellation Technology







#### **Operation**

The Transmitter head emits a narrow beam of infra-red light to an associated Receiver head. Once smoke crosses through and thus obscures the IR beam path, the signal strength at the Receiver drops below a preset level which in turn results in an alarm condition.

The Fireray® 3000 Exd has been designed so that it can be installed by one operator, with its laser assisted alignment method combined with easy to use alignment LEDs offering visual feedback. Integrated laser alignment aid can be activated at the Controller.

The Fireray® 3000 Exd also has a feature which allows for the Transmitter to be powered from the Controller by wiring directly, thus reducing the number of power supplies required.

The low level system Controller incorporates a LCD display, which offers a full icon-based, easy-to-use interface unit. This Controller enables ease of commissioning, testing and maintenance of the beam detection system. During commissioning the detector's fire sensitivity thresholds can be selected, along with the user variable time to fire and time to fault settings.

The system is fully compliant with the requirements of RoHS and WEEE.

The Fireray $^{\$}$  3000 Exd comes with a 5 year warranty as standard. With continued servicing and maintenance, the lifetime of the beam can exceed 10 years.

The Fireray® 3000 Exd comes supplied with a Cable Gland Type E (Double Compression for Armoured Cables), approved by VdS.

The "E" type double compression gland is a certified Flameproof Ex d, providing a controlled Exd seal on the cable inner sheath, an environmental seal on the outer sheath and a detachable armour specific clamping system for the wire armoured cables.

#### Approvals:





# Fireray® 3000 Exd

| Operating Range:   10 to 80 metres, (33ft to 262ft) Operating Voltage Range:   12 to 36V DC ± 10% Operating Controller Current (with 1 or 2 Receivers):   14mA (constant) Operating Transmitter Current:   8mA (per Transmitter) Power Down Reset Time:   > 20 seconds Fire and Fault Relay Contacts:   VFCO 2A @ 30 Volts DC resistive Operating Temp. (non-condensing):   -10°C to +55°C, (14°f to 131°f) Optical Wavelength:   850nm LED Indications:   Red = Fire   | Technical Specification             |                                  |  |
|---|-------------------------------------|----------------------------------|--|
| Operating Controller Current (with 1 or 2 Receivers): Operating Transmitter Current: Power Down Reset Time: Power Down Reset Time: Poperating Temp. (non-condensing): Operating Temp. (non-condensing): Optical Wavelength:  LED Indications: Control Unit -  Red = Fire Amber = Fault Green = System OK Alignment LEDs for single person alignment.  IP Rating: IP54 (Controller) IP66 (Transmitter/Receiver)  Relative Humidity (non-condensing): I x Transmitter (dear lens) I x Receiver (dark lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector): I x Transmitter (clear lens) I x Receiver (dark lens) I x Receiver (dark lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material (Controller): UL94 V2 PC (Transmitter/Receiver):  Capper Free Aluminium Alloy LM25, red (Bracket): Steel, red Cable Gland Entries: Peppers E3VWBF Exd Cable Gland B- Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval   |                                     | 10 to 80 metres, (33ft to 262ft) |  |
| (with 1 or 2 Receivers):       Intrive (Constant)         Operating Transmitter Current:       8mA (per Transmitter)         Power Down Reset Time:       >20 seconds         Fire and Fault Relay Contacts:       VFCO 2A @ 30 Volts DC resistive         Operating Temp. (non-condensing):       -10°C to +55°C, (14°f to 131°f)         Optical Wavelength:       850nm         LED Indications:       Red = Fire         Control Unit -       Red = Fire         Amber = Fault       Green = System OK         Alignment LEDs for single person alignment.       IP54 (Controller)         IP6 (Transmitter/Receiver)       IP66 (Transmitter/Receiver)         Relative Humidity (non-condensing):       1 x Transmitter (clear lens)         I x Receiver (dark lens)       1 x Receiver (dark lens)         I x Fixing Kit       2 x Brackets         Parts List (Additional Detector):       1 x Transmitter (clear lens)         I x Fixing Kit       2 x Brackets         Housing Material       Copper Free         Housing Material       Copper Free         Copper Free       Aluminium Alloy LM25, red         (Bracket):       Steel, red         Cable Gland Entries:       3 x 20mm         Peppers E3WBF Exd Cable Gland       E - Type of gland featuring armour specific clamping  | Operating Voltage Range:            | 12 to 36V DC ± 10%               |  |
| Power Down Reset Time: > 20 seconds  Fire and Fault Relay Contacts: VFCO 2A @ 30 Volts DC resistive  Operating Temp. (non-condensing): -10°C to +55°C, (14°f to 131°f)  Optical Wavelength: 850nm  LED Indications:  Control Unit - Red = Fire Amber = Fault Green = System OK  Alignment LEDs for single person alignment.  IP Rating: IP54 (Controller)  Relative Humidity (non-condensing): 93%  Parts List (System): 1 x Transmitter (clear lens) 1 x Receiver (dark lens) 1 x Receiver (dark lens) 1 x Fixing Kit 2 x Brackets  Parts List (Additional Detector): 1 x Transmitter (clear lens) 1 x Receiver (dark lens) 1 x Fixing Kit 2 x Brackets  Housing Material (Controller): UL94 V2 PC  (Transmitter/Receiver): UL94 V2 PC  (Transmitter/Receiver): Steel, red  Cable Gland Entries: 3 x 20mm  Peppers E3WBF Exd Cable Gland  B - Type of gland featuring amour specific clamping 3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX 1260  IECEx SIR I 5.0089   |                                     | I4mA (constant)                  |  |
| Fire and Fault Relay Contacts:  Operating Temp. (non-condensing):  Optical Wavelength:  LED Indications:  Control Unit -  Red = Fire  Amber = Fault  Green = System OK  Alignment LEDs for single person alignment.  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Receiver (dark lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries: Peppers E3WBF Exd Cable Gland  ATEX Approval  SIRA I SATEX I 260 IECEx SIR I 5.0089  | Operating Transmitter Current:      | 8mA (per Transmitter)            |  |
| Presenting Temp. (non-condensing):  Operating Temp. (non-condensing):  Optical Wavelength:  LED Indications:  Control Unit -  Red = Fire  Amber = Fault  Green = System OK  Alignment LEDs for single person alignment.  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Receiver (dark lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries: Peppers E3WBF Exd Cable Gland Fersion and featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I SATEX I 260 IECEx SIR I 5.0089   | Power Down Reset Time:              | >20 seconds                      |  |
| Optical Wavelength:  LED Indications:  Control Unit -  Red = Fire  Amber = Fault  Green = System OK  Alignment LEDs for single person alignment.  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  ATEX Approval  SIRA I 5ATEX 1260 IECEx SIR I 5.0089   | Fire and Fault Relay Contacts:      | resistive                        |  |
| LED Indications:  Control Unit -  Red = Fire  Amber = Fault  Green = System OK  Alignment LEDs for single person alignment.  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries: Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX 1260 IECEx SIR I 5.0089   | Operating Temp. (non-condensing):   | -10°C to +55°C, (14°f to 131°f)  |  |
| Control Unit -  Red = Fire Amber = Fault Green = System OK  Alignment LEDs for single person alignment.  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries: Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX 1260 IECEx SIR I 5.0089   | Optical Wavelength:                 | 850nm                            |  |
| Amber = Fault Green = System OK  Alignment LEDs for single person alignment.  IP Rating: Relative Humidity (non-condensing): Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Control Unit I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  UL94 V2 PC  (Transmitter/Receiver):  Cable Gland Entries: Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEX SIR I 5.0089  | LED Indications:                    |                                  |  |
| Green = System OK  Alignment LEDs for single person alignment.  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  U x Transmitter (clear lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEX SIR I 5.0089   | Control Unit -                      | Red = Fire                       |  |
| Receiver - Alignment LEDs for single person alignment.  IP Rating: IP54 (Controller) IP66 (Transmitter/Receiver)  Relative Humidity (non-condensing): 93%  Parts List (System): I x Transmitter (clear lens) I x Receiver (dark lens) I x Control Unit I x Fixing Kit 2 x Brackets  Parts List (Additional Detector): I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller): UL94 V2 PC  (Transmitter/Receiver): Copper Free Aluminium Alloy LM25, red  (Bracket): Steel, red  Cable Gland Entries: 3 x 20mm  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEX SIR I 5.0089  |                                     | Amber = Fault                    |  |
| Receiver - single person alignment.  IP Rating: IP54 (Controller) IP66 (Transmitter/Receiver)  Relative Humidity (non-condensing): 93%  Parts List (System): I x Transmitter (clear lens) I x Receiver (dark lens) I x Control Unit I x Fixing Kit 2 x Brackets  Parts List (Additional Detector): I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material (Controller): UL94 V2 PC (Transmitter/Receiver): Copper Free Aluminium Alloy LM25, red  (Bracket): Steel, red  Cable Gland Entries: 3 x 20mm  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEx SIR I 5.0089  |                                     | Green = System OK                |  |
| IP Rating:  IP Rating:  Relative Humidity (non-condensing):  Parts List (System):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit I x | Receiver -                          |                                  |  |
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| Parts List (System):    I x Transmitter (clear lens)   I x Receiver (dark lens)   I x Control Unit   I x Fixing Kit   2 x Brackets   Parts List (Additional Detector):   I x Transmitter (clear lens)   I x Receiver (dark lens)   I x Fixing Kit   2 x Brackets   Housing Material   (Controller):   UL94 V2 PC  | Relative Humidity (non-condensing): | `                                |  |
| I x Receiver (dark lens)   I x Control Unit   I x Fixing Kit   2 x Brackets   |                                     |                                  |  |
| I x Control Unit I x Fixing Kit 2 x Brackets  Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries: Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEx SIR I 5.0089   | , ,                                 | ` ′                              |  |
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| Parts List (Additional Detector):    X Transmitter (clear lens)     X Receiver (dark lens)     X Fixing Kit     2 x Brackets     Housing Material     (Controller):   UL94 V2 PC     (Transmitter/Receiver):   Copper Free     Aluminium Alloy LM25, red     (Bracket):   Steel, red     Cable Gland Entries:   3 x 20mm     Peppers E3WBF Exd Cable Gland     E - Type of gland featuring     armour specific clamping     3 - Silicone     W - SWA     B - Brass     F - Multiple Certification     ATEX Approval     SIRA I 5ATEX I 260     IECEx SIR I 5.0089   |                                     | I x Fixing Kit                   |  |
| Parts List (Additional Detector):  I x Transmitter (clear lens) I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller):  UL94 V2 PC  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping  3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEx SIR I 5.0089   |                                     |                                  |  |
| I x Receiver (dark lens) I x Fixing Kit 2 x Brackets  Housing Material  (Controller): UL94 V2 PC  (Transmitter/Receiver): Copper Free Aluminium Alloy LM25, red  (Bracket): Steel, red  3 x 20mm  Peppers E3WBF Exd Cable Gland E - Type of gland featuring armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEx SIR I 5.0089  | Parts List (Additional Detector):   |                                  |  |
| I x Fixing Kit 2 x Brackets  Housing Material  (Controller): UL94 V2 PC (Transmitter/Receiver): Copper Free Aluminium Alloy LM25, red  (Bracket): Steel, red  3 x 20mm  E - Type of gland featuring armour specific clamping  3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  I x Fixing Kit 2 x Brackets  E - Roultiple Certification  | · a a list ( taller ia 2 steets).   |                                  |  |
| 2 x Brackets  |                                     | ` '                              |  |
| Housing Material  (Controller): UL94 V2 PC  (Transmitter/Receiver): Copper Free Aluminium Alloy LM25, red  (Bracket): Steel, red  3 x 20mm  E - Type of gland featuring armour specific clamping  3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260 IECEx SIR I 5.0089   |                                     |                                  |  |
| (Controller):  (Transmitter/Receiver):  (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping  3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260  IECEx SIR I 5.0089  | Housing Material                    | Z X Bruckets                     |  |
| (Transmitter/Receiver):  Copper Free Aluminium Alloy LM25, red  (Bracket):  Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping  3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260  IECEx SIR I 5.0089  |                                     |                                  |  |
| Aluminium Alloy LM25, red  (Bracket): Steel, red  Cable Gland Entries: 3 x 20mm  E - Type of gland featuring armour specific clamping  3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260  IECEx SIR I 5.0089  | <del></del>                         |                                  |  |
| (Bracket):  Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping  3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260  IECEx SIR I 5.0089  | (Harsimiller/Fecciver).             |                                  |  |
| Cable Gland Entries:  Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping  3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA I 5ATEX I 260  IECEx SIR I 5.0089  | (Bracket):                          | ,                                |  |
| Peppers E3WBF Exd Cable Gland  E - Type of gland featuring armour specific clamping  3 - Silicone  W - SWA  B - Brass  F - Multiple Certification  ATEX Approval  SIRA 15ATEX1260  IECEx SIR 15.0089  |                                     | ,                                |  |
| armour specific clamping 3 - Silicone W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA 15ATEX 1260 IECEx SIR 15.0089   |                                     |                                  |  |
| W - SWA B - Brass F - Multiple Certification  ATEX Approval  SIRA 15ATEX1260 IECEx SIR 15.0089  | reppers E344Br Exa Cable Glaria     | armour specific clamping         |  |
| B - Brass F - Multiple Certification  ATEX Approval  SIRA 15ATEX 1260 IECEx SIR 15.0089   |                                     |                                  |  |
| F - Multiple Certification  ATEX Approval  SIRA 15ATEX 1260  IECEx SIR 15.0089  |                                     | W-SWA                            |  |
| ATEX Approval SIRA 15ATEX1260 IECEx SIR 15.0089   |                                     |                                  |  |
| IECEx SIR 15.0089   |                                     | F - Multiple Certification       |  |
| IECEx SIR 15.0089   | ATEX Approval                       | SIRA I 5ATEX I 260               |  |
| Vds EN54 Part 12  |                                     | IECEx SIR 15.0089                |  |
|   | Vds                                 | EN54 Part 12                     |  |

| All figures are o | quoted for 25°C |
|-------------------|-----------------|
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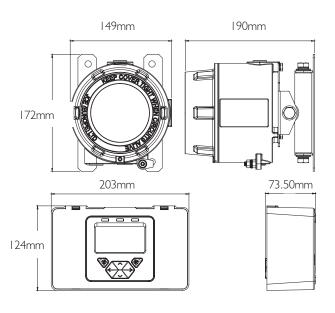
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| Alarm & Operation Thresholds                             | Min   | Туре | Max   |
|--|-------|------|-------|
| Delay to Alarm/Fault (selectable in   sec steps):        | 2s    | 10s  | 30s   |
| Laser Time-out (selectable in 1 min steps):              | l min | 5min | 59min |
| Response Sensitivity/Threshold (selectable in 1% steps): | 25%   | 35%  | 60%   |

#### Weight

| Control Unit:                           | 606g  |
|---|-------|
| Transmitter & Receiver (Inc. Brackets): | 3.7kg |



Fireray 3000 Exd - PN: **3000-115** 

Fireray 3000 Exd Detector Pack - PN: 3000-026

#### **Installation Recommendations**

Please refer to the User Guide (UG) for mounting, wiring and commissioning instructions . The installation of the 3000 Exd infrared optical beam smoke detector should be undertaken in accordance with the recognised national, or international, standards and Codes of Practice (COP).

Specifications and wiring information are provided for information only and are believed to be accurate. FFE Ltd assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions are shipped with the products and should always be used for actual installation. For more information, contact your Sales Representative.

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