

**Annexe to:** IECEx SIR 06.0074 Issue 2

**Applicant:** Pepperl+ Fuchs GmbH

**Apparatus:** Terminal Enclosures



**General product information:**

The **XL/ FXL/ AL/ SL/ RX Ranges of Terminal Boxes and Control Boxes** use an enclosure that is certified as an increased safety component under Certificate Number to IECEx SIR06.0073U. These enclosures can be manufactured from either stainless steel, mild steel or aluminium sheet (the RX Terminal Boxes are only manufactured from stainless steel). Sealing between the lid/body and glandplate/body interfaces is achieved with a 5 mm one piece closed cell Neoprene or Silicone gasket. The enclosures may be used in an ambient temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  when fitted with a Neoprene gasket or  $-50^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$  when fitted with a Silicone gasket, however, there is the option to replace the main enclosure earth connection; this arrangement is limited to an ambient temperature range of  $-40^{\circ}\text{C}$  to  $120^{\circ}\text{C}$ , and fitted with specified terminals as indicated below.

| Manufacturer    | Terminal Type    | Certificate       | Code    |
|-----------------|------------------|-------------------|---------|
| Weidmuller      | SAK Series       | IECEX SIR05.0032U | Ex e II |
|                 | BK Series        | IECEX SIR05.0035U |         |
|                 | MK3 Series       | IECEX SIR05.0036U |         |
|                 | MK6 Series       | IECEX SIR05.0037U |         |
|                 | AKZ Series       | IECEX SIR05.0038U |         |
|                 | WDU 2.5TC Series | IECEX SIR05.0039U |         |
|                 | WDUSL Series     | IECEX SIR05.0040U |         |
|                 | W Series         | IECEX ULD05.0008U |         |
|                 | Z Series         | IECEX ULD05.0009U |         |
| Phoenix Contact | UK1.5N – UK6N    | IECEX KEM06.0034U |         |
|                 | UK10N – UK35N    | IECEX KEM06.0029U |         |
|                 | UT2.5 – UT35     | IECEX KEM06.0027U |         |

The maximum power dissipation for each enclosure size, temperature classification, and ambient temperature range is listed below.

| Junction box size | Maximum power limit (W)               |
|-------------------|---------------------------------------|
|                   | Ex e, Ex ia and Ex tb applications    |
|                   | T6 T80°C (+ 40°C) T4 T130°C (+ 85°C)  |
|                   | T5 T95°C (+ 55°C) T3 T160°C (+ 120°C) |
| SL/AL* 1          | 9                                     |
| SL/AL* 2          | 9                                     |
| SL/AL* 3          | 9                                     |
| SL/AL* 4          | 11                                    |
| SL/AL* 5          | 11                                    |
| SL/AL* 6          | 13                                    |
| XL* 1/FXL* 1      | 15                                    |
| XL* 2/FXL* 2      | 15                                    |
| XL* 2D/FXL* 2D    | 15                                    |
| XL* 3/FXL* 3      | 21                                    |
| XL* 3D/FXL* 3D    | 21                                    |
| XL* 4/FXL* 4      | 15                                    |
| XL* 4D/FXL* 4D    | 15                                    |
| XL* 5/FXL* 5      | 29                                    |
| XL* 5D/FXL* 5D    | 29                                    |
| XL* 6/FXL* 6      | 30                                    |
| XL* 6D/FXL* 6D    | 30                                    |

**Annexe to:** IECEx SI R 06.0074 Issue 2

**Applicant:** Pepperl+ Fuchs GmbH

**Apparatus:** Terminal Enclosures



| Junction box size | Maximum power limit (W)   |
|-------------------|---|
|                   | Ex e, Ex ia and<br>Ex tb applications   |
|                   | T6 T80°C (+ 40°C) T4 T130°C (+ 85°C)<br>T5 T95°C (+ 55°C) T3 T160°C (+ 120°C) |
| XL* 7/FXL* 7      | 21  |
| XL* 7D/FXL* 7D    | 21  |
| XL* 8/FXL* 8      | 30  |
| XL* 8D/FXL* 8D    | 30  |
| XL* 9/FXL* 9      | 41.7  |
| XL* 9D/FXL* 9D    | 41.7  |
| XL* 10/FXL* 10    | 93.4  |
| XL* 10D/FXL* 10D  | 93.4  |
| XL* 11/FXL* 11    | 100   |
| XL* 11D/FXL* 11D  | 100   |
| XL* 11S/FXL* 11S  | 100   |

The RX enclosures are similar to the XL enclosures, although are only manufactured in stainless steel.

| Designation | Maximum power limit (W)   |
|-------------|---|
|             | Ex e, Ex ia and<br>Ex tb applications   |
|             | T6 T80°C (+ 40°C) T4 T130°C (+ 85°C)<br>T5 T95°C (+ 55°C) T3 T160°C (+ 120°C) |
| RX1         | 4   |
| RX2         | 9   |
| RX3         | 9   |
| RX4         | 9   |
| RX5         | 11  |
| RX6         | 13  |
| RX7         | 13  |
| RX8         | 11  |
| RX9         | 11  |
| RX10        | 13  |
| RX11        | 15  |
| RX12        | 15  |
| RX13        | 15  |
| RX14        | 15  |
| RX15        | 21  |
| RX16        | 15  |
| RX17        | 11  |
| RX18        | 15  |
| RX19        | 15  |
| RX20        | 15  |
| RX21        | 15  |
| RX22        | 15  |
| RX23        | 21  |
| RX24        | 15  |
| RX25        | 29  |
| RX26        | 29  |

**Date:** 04 October 2010

Page 2 of 3

**Form 9530 Issue 1**

## Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900

Fax: +44 (0) 1244 681330

Email: [info@siracertification.com](mailto:info@siracertification.com)

Web: [www.siracertification.com](http://www.siracertification.com)

**Annexe to:** IECEx SI R 06.0074 Issue 2  
**Applicant:** Pepperl+ Fuchs GmbH  
**Apparatus:** Terminal Enclosures



| Designation | Maximum power limit (W)   |
|-------------|---|
|             | Ex e, Ex ia and<br>Ex tb applications   |
|             | T6 T80°C (+ 40°C) T4 T130°C (+ 85°C)<br>T5 T95°C (+ 55°C) T3 T160°C (+ 120°C) |
| RX27        | 15  |
| RX28        | 15  |
| RX29        | 15  |
| RX30        | 21  |
| RX31        | 21  |