



## Twilight Photocell SRN 2000-D-Ex

**This twilight photocell automatically switches electric loads, e.g. explosion-protected lights, ON and OFF**

- ▶ Can be used in zones 1 + 2 without additional explosion protection means
- ▶ Explosion protection class EEx em [ib] IIB T6
- ▶ Switches loads up to 6 A, 230 VAC

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### Application

The SRN 2000-D-Ex twilight photocell is primarily intended to switch on lights, optical signalling devices, etc. automatically when it gets dark. When the intensity of the ambient light falls below a set value (the crossover threshold can be set by the operator), the internal load relay is activated and the light or device connected to it is turned on.

### Design

The SRN 2000-D-Ex is a compact twilight photocell for use in areas with explosive atmospheres.

The device is designed in such a way that it can be used in zones 1 + 2 of group II without additional explosion protection means.

An implemented switching hysteresis and a short-term timer of approx. 4 – 5 minutes to bridge brief variations in the light intensity prevents unwanted switching of the load relay caused by sporadic light when the twilight photocell is activated or brief covering of the twilight sensor when it is not activated.

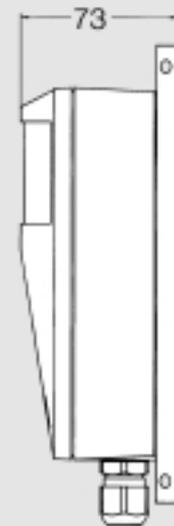
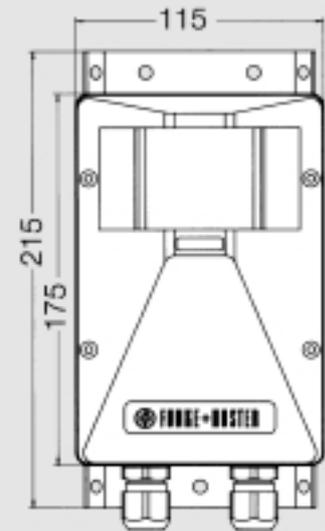
### Control of outdoor lighting in explosion zone 1

The device is designed in such a way that it can be used in zones 1 + 2 of group II without additional explosion protection means.

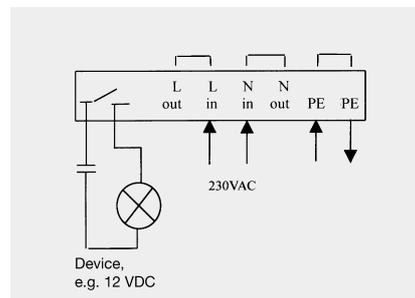
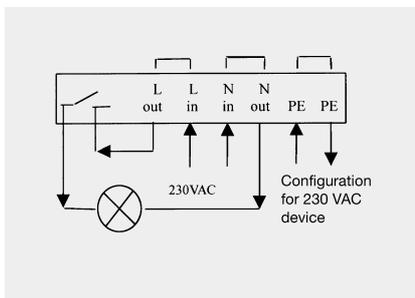


## Technical specifications

|                        |  |
|------------------------|--|
| Housing                | Polycarbonate with steel backplate             |
| Colour                 | Light grey                                     |
| Protection degree      | IP 66 (IEC 529)                                |
| Cable gland            | 2 x Pg 11 for cables 5–10 mm in diameter       |
| Operating conditions   | Indoors and outdoors                           |
| Operating position     | Vertical, cable glands downwards               |
| Operating mode         | Continuous                                     |
| Switching contact      | Potential free, switching capacity 230 VAC/6 A |
| Light sensitivity      | Adjustable                                     |
| Temperature range      |  |
| Operation              | -20° C to +50° C                               |
| Storage                | -20° C to +60° C                               |
| Expl. protection class | EExem [ib] II B T6                             |
| Approval               | PTB 97.D.2176                                  |
| Weight                 | Approx. 1.5 kg                                 |



## Wiring diagrams



If a device, e.g. with a voltage of 12 VDC, is to be connected to the twilight photocell, the wiring is as shown above.

## Order information

| Type          | Name               | Rated voltage V | Current consumption | Switching capacity | Article no. |
|---------------|--------------------|-----------------|---------------------|--------------------|-------------|
| SRN 2000-D-Ex | Twilight Photocell | 230 VAC         | 15 mA               | 6 A / 230 VAC      | 325 833 01  |

