



LED sightglass light fittings for applications in hazardous and safe areas

Overview



Micro-LED sightglass light fitting, type MVLR 2 LED, mounted onto metal fused sightglass for Triclamp® fittings, DN 50, PN 16



miniLUX LED sightglass light fitting, type BKVLR LED, mounted onto metal fused flange for sterile applications



metaLUX LED sightglass light fitting, type HL 200 LED, on sightglass to DIN 2810, DN 200, PN 10

MAX MÜLLER AG has been closely observing the development of the LED technology for years and may therefore present a wide range of innovative sightglass light fittings for applications in hazardous or in safe areas. The LED versions offer the following advantages:

- UV-free and cold light output
- Extremely long life span (ca 20'000–40'000 operating hours), thus making periodic maintenance unnecessary
- Very high lighting power at small consumption: Light output of ~980 Lumen with power consumption of only 7 W (PowerLED types)
- Suitable for continuous operation
- Housings and fixations from stainless steel or cast aluminium alloy, depending on application
- Light fittings can be combined with window wipers and spraying devices, depending on type and application

Application:

- On sightglasses to DIN 28120 from DN 25
- On sightglasses to DIN 28121 from DN 40
- On screwed sightglasses similar to DIN 11851 from DN 32
- On pipeline flow indicators (in-line sightglasses)
- On metal fused sightglasses

Enclosure protection degree:

- Safe area types: IP 65, dust and spray water tight, to EN 60529 / DIN VDE 0470 part 1
- Hazardous area types: IP 65 / 67, dust tight and jet water-proof as well as protected against the effects of temporary immersion to EN 60529 / DIN VDE 0470 part 1

Available types for applications in safe areas:

miniLUX micro-LED, series MVLR

- Entirely in stainless steel
- Terminal voltage 24 V AC / DC
- Power 1, 2 or 4 W
- Available for continuous, momentary or “ON-OFF” operation
- Fixation by means of collar flange, tilting hinge or clip fastener

miniLUX, series BKVLR LED

- Entirely in stainless steel
- Terminal voltage 24 V AC / DC
- Power 1 or 2 W
- Available for continuous, momentary or “ON-OFF” operation
- Fixation by means of collar flange or tilting hinge
- Particularly recommended for use on pipeline flow indicators

metaLUX, series HL LED (HL 100 – HL 200)

- Housings from cast aluminium alloy
- Terminal voltage 24 V AC / DC
- Power ca. 2–6 W, depending on type
- Available for continuous, momentary or “ON-OFF” operation
- For direct mounting onto sightglasses to DIN 28120 / 28121

miniLUX, series KLR PowerLED

- Entirely in stainless steel
- Terminal voltage 24 V AC / DC or 230–240 V AC
- Power 7 W; ~980 Lumen
- Available for continuous, momentary or “ON-OFF” operation
- Fixation by means of a tilting hinge or collar flange



MAX MÜLLER AG

Europe's largest sightglass light fitting programme!
Perfect, thoroughly engineered solutions from one hand!
Always an interesting, technically advanced idea ahead!



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CHEMLUX LED sightglass light fitting, type KEL de PowerLED-F W, Ex d e op is IIC T6 Gb, Ex t IIIC T80°C Db IP65/67, Ex II G + D, mounted onto sightglass to DIN 28120, DN 125, PN 10



EdelLUX LED sightglass light fitting, type EdelEx LED, Ex d IIC T6 Gb, Ex t IIIC T80°C Db IP67, Ex II G + D, mounted onto metal fused sightglass for Triclamp® fittings, DN 50, PN 16

Branch office / exclusive agent:

All dimensions in mm. Subject to changes without preliminary notice.



Available types for applications in safe areas (cont'd):

CHEMLUX, series FHL PowerLED / KL PowerLED

- Housings from cast aluminium alloy (Anticorodal)
- Terminal voltage 24 V AC / DC or 230–240 V AC
- Power 7 W; ~980 Lumen
- Available for continuous, momentary or “ON-OFF” operation or with built-in timer
- Fixation by means of collar flange, side feet or mounting bracket

Available types for applications in hazardous areas:

CHEMLUX, series (F)HEL Power LED / (F)KEL PowerLED

- Housings from cast aluminium alloy (Anticorodal)
- Terminal voltage 24 V AC / DC or 230–240 V AC
- Power 7 W; ~980 Lumen
- (Ex)-classification:
(F)HEL PowerLED: Ex d (e) op is IIC T6 Gb, Ex t IIIC T80°C Db IP67, Ex II G + D
(F)KEL PowerLED: Ex d (e) op is IIC T6 Gb, Ex tb IIC T80°C Db IP65/67, Ex II G + D
- ATEX equipment protection level (EPL): Gb (zones 1 and 2) and Db (zones 21 and 22)
- Available for continuous, momentary or “ON-OFF” operation or with built-in timer
- Fixation by means of collar flange, side feet or mounting bracket

EdelLUX, series EdelEx LED / PowerLED

- Entirely in stainless steel
- Terminal voltage 24 V AC / DC (LED) / 24 V AC / DC or 230–240 V AC (PowerLED)
- Power 2 W (LED) resp. 7 W / ~980 Lumen (PowerLED)
- (Ex)-classification:
LED: Ex d IIC T6 Gb, Ex t IIIC T80°C Db IP67, Ex II G + D
PowerLED: Ex d op is IIC T6 Gb, Ex tb IIC T80°C Db IP65/67, Ex II G + D
- ATEX equipment protection level (EPL): Gb (zones 1 and 2) and Db (zones 21 and 22)
- Available for continuous operation or with external timer
- Fixation by means of collar flange or tilting hinge

fibroLUX, series fibroLUX E d PowerLED

- Entirely in stainless steel
- Terminal voltage 24 V AC / DC or 230–240 V AC
- Power 7 W; ~980 Lumen
- (Ex)-classification: Ex d op is IIC T6 Gb, Ex t IIIC T80°C Db IP65/67, Ex II G + D
- ATEX equipment protection level (EPL): Gb (zones 1 and 2) and Db (zones 21 and 22)
- Available for continuous operation or with external timer
- Fixation by means of tilting hinge or mounting bracket

Do you wish for more information about our wide range of light fittings for use in hazardous and safe areas, camera systems for hazardous areas, about our range of circular sightglasses to DIN 28120/28121, screwed sightglasses similar to DIN 11851, rectangular or D-ended sightglasses, pipeline flow indicators, centrally or sideways operated wipers, hinged sightglasses, spraying devices or our complete sight and lightglass units VETROLUX? Are you interested in other types, special versions or different protection degrees? If yes, please contact us, our branch office or our local agents – it is our business! You will find the necessary indications about our sales network on the Internet.

MAX MÜLLER AG

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