



Iluminación y observación (in situ y remota) de procesos - dentro y fuera de recipientes a presión

Lumiglas
Guía de productos

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Circular sight glass fitting to DIN 28120 or similar

- Circular flange mounting for welding into or onto the vessel
- Complete with seals and gaskets, sight glass disk and screw connections
- Sizes: DN 50 to DN 200
- Viewing port: 80 to 225 mm
- Max. 16 bar
- Operating temperature: 280°C with borosilicate glass DIN 7080, 150°C with soda-lime glass DIN 8902
- Materials: steel, stainless steel, special alloys
- Seals and gaskets to suit application
- Special versions
- Data sheet: 3755.165



Circular sight glass fitting in stainless steel for non-pressurized vessels

- The advantages of this lightweight flange for non-pressurized vessels (outside the scope of DIN 28120) are:
 - Small outside diameter, thus requiring smaller cut-out in the vessel
 - Less protrusion above the weld
 - Lower weight
 - Easier to clean
 - Lower costs
- Sizes: DN 50 to DN 300
- Viewing port: 80 to 300 mm
- Pressure resistance: 0-2 bar, depending on size
- Operating temperature: 280°C with borosilicate glass DIN 7080, 150°C with soda-lime glass DIN 8902
- Materials: steel, stainless steel, special alloys
- Seal and gaskets to suit application
- Special versions
- Data sheet: 3755.197



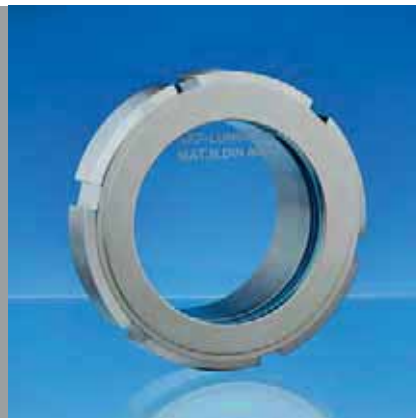
Circular sight glass fitting DIN 28121 or similar

- Circular flange mounting for screwing onto weld neck flanges
- Complete with sight glass disk inserted between two gaskets
- The fitting is supplied as a unit which has been mechanically pre-tensioned
- Sizes: DN 40 to DN 200
- Viewing port: 48 to 150 mm
- Max. 25 bar
- Operating temperature: 200°C with borosilicate glass DIN 7080
- Materials: steel, stainless steel, special alloys
- Special versions
- Data sheet: 3755.166



Double-glazed safety sight glass fitting

- Circular flange mounting for screwing onto weld neck flanges
- Complete with two independent glass disks separated by a spacer ring
- Should one of the glass disks be damaged, the second one ensures full operating safety
- Sizes: DN 50 to DN 200
- Viewing port: 65 to 175 mm
- Max. 10 bar (higher pressure ratings on request)
- Operating temperature: 280°C with borosilicate glass DIN 7080, 150°C with soda-lime glass DIN 8902
- Materials: steel, stainless steel, special alloy
- Special versions, e.g. with heating element
- Data sheet: 3755.167



Screw-type sight glass fitting MV

- Similar to DIN 11851
- The weld necks are welded onto or into the vessel
- Complete with seals and gaskets, sight glass disk and threaded cover nut
- Sizes: DN 50 to DN 150
- Viewing port: 50 to 150 mm
- Max. 6 bar
- Operating temperature: 260°C with borosilicate glass DIN 7080, 150°C with soda-lime glass DIN 8902
- Materials: steel, stainless steel, special alloys
- Seal and gaskets to suit application
- Special versions
- Data sheet: 3755.168



Screw-type sight glass fitting MV-5 for aseptic applications

- Similar to DIN 11864-1 (dairy type screwed fittings)
- The weld necks are welded onto or into the vessel
- Aseptic screwed pipe unions with fused metal-sight glass disk, borosilicate glass
- Max. 25 bar
- Operating temperature: max. 240°C
- Combination options: this sight glass can be combined with various Lumistar "sterile technology" luminaires. Specially adapted Lumistar luminaires available for Ex and non-Ex environments
- Data sheet: 3755.241



Lumistar luminaire USL 05

- Fully enclosed power luminaire with protective glass
- Aluminium
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 25; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage: 24 V, 120 V, 230 V
- Output: up to 50 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Data sheet: 3755.175



Lumistar luminaire USL 06

- Fully enclosed power luminaire with protective glass
- Aluminium
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 25; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage: 12 V, 24 V, 120 V, 230 V
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Also available in stainless steel as variant ESL 26
- Data sheet: 3755.176



Lumistar luminaire USL 07

- Fully enclosed power luminaire with protective glass
- Aluminium
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 50; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage: 12 V, 24 V, 120 V, 230 V
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- Mounting by two brackets to the counterflange of the sight glass fitting
- Extra large light aperture (Ø 95 mm)
- Also available as a variant with flexible light guide and as a variant in stainless steel (see Lumistar Ex-sight glass luminaires)
- Data sheet: 3755.179



Lumistar luminaire USL 05-LED

- Fully enclosed power luminaire with protective glass
- Aluminium
- Compact design
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 25; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage: 230 V
- Output: up to 5 W (LED)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Data sheet: 3755.175



Lumistar luminaire ASL 55-LED

- Fully enclosed high-power luminaire with protective glass
- Aluminium
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 40; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage/output, depending on luminaire version: 12 V, 24-48 V or 120-230 V,
- 3 or 6 high-power LEDs with 11 or 15 W
- Protection class: IP 65
- Reflector: 10° or 25°
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Data sheet: 3755.432



Lumistar luminaire ASL 57-LED

- Fully enclosed high-power luminaire with protective glass
- Aluminium
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 40; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage/output: 24 V AC/DC, 120-230 V AC – 35 W
- Protection class: IP 65
- Reflector: 10° or 25°
- Mounting by stainless steel hinged bracket or by flange collar (DIN 11851)
- Data sheet: 3755.314



Lumistar luminaire ESL 51-LED

- Fully enclosed compact luminaire with protective glass
- Stainless steel
- Smooth body
- Rated voltage/output: 24 V AC/DC – 2.5 W (LED)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting; alternatively by clip for attaching to a Lumiglas sight glass wiper or by flange collar (DIN 11851)
- Data sheet: 3755.361



Lumistar luminaire ESL 53-LED

- Sight glass luminaire for universal applications
- Stainless steel
- Rated voltage/output: 24 V AC/DC – 7 W (LED)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Data sheet: 3755.322



Lumistar luminaire ESL 55-LED

- Sight glass luminaire for universal applications
- Stainless steel
- Rated voltage/output, depending on luminaire variant: 12 V, 24-48 V or 120 – 230 V; 3 or 6 high-power LEDs with 11 or 15 W
- Protection class: IP 65
- Reflector: 10° or 25°
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Data sheet: 3755.432



Lumistar luminaire USL 01

- Fully enclosed compact luminaire with protective glass
- Stainless steel
- Smooth body
- Suitable for circular sight glass fittings to DIN 28120/28121 and for screw-type sight glass fittings similar to DIN 11851
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting; alternatively by clip for attaching to a Lumiglas sight glass wiper or by flange collar (DIN 11851)
- Rated voltage: 12 V, 24 V
- Output: up to 20 W (halogen light bulb)
- Protection class: IP 65
- Outside diameter USL 01: only 24 mm, thus also suitable for rectangular and oval fittings
- Data sheet: 3755.272



Lumistar luminaire USL 03

- Fully enclosed compact luminaire in lightweight design with protective glass
- Stainless steel
- Smooth body
- Suitable for circular sight glass fittings to DIN 28120/28121 from DN 25 and for screw-type sight glass fittings similar to DIN 11851
- Rated voltage: 12 V, 24 V
- Output: up to 50 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- Also available as LED version
- Data sheet: 3755.155



Lumistar luminaire USL 13/USL 33

- Fully enclosed compact luminaire in lightweight design with protective glass
- Stainless steel
- Smooth body
- Suitable for circular sight glass fittings to DIN 28120/28121 from DN 25 and for screw-type sight glass fittings similar to DIN 11851 from DN 50
- Rated voltage: 12 V, 24 V, 120 V, 230 V
- Output: up to 50 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- USL 33 = version for sterile work environments
- Also available as UL-listed version
- Also available as LED version
- Data sheet: 3755.199



Lumistar luminaire USL 15/USL 35

- Fully enclosed compact luminaire in light-weight design with protective glass
- Stainless steel
- Smooth body
- Suitable for circular sight glass fittings to DIN 28120/28121 from DN 25 and for screw-type sight glass fittings similar to DIN 11851 from DN 50
- Rated voltage: 12 V, 24 V, 120 V, 230 V
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- USL 35 = version for sterile work environments
- Also available as UL-listed version
- Also available as LED version
- Data sheet: 3755.239



Lumistar luminaire USL 16/USL 36

- Fully enclosed compact luminaire with protective glass
- Stainless steel
- Smooth body
- Suitable for circular sight glass fittings to DIN 28120/28121 from DN 25 and for screw-type sight glass fittings similar to DIN 11851 from DN 50
- Rated voltage: 12 V, 24 V, 120 V, 230 V
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting or by flange collar (DIN 11851)
- USL 36 = version for sterile work environments
- Also available as LED version with 230 V/5 W
- Data sheet: 3755.492



Lumistar luminaire ESL 25

- Fully enclosed power luminaire with protective glass
- Stainless steel
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from DN 25 and for screw-type sight glass fittings similar to DIN 11851
- Rated voltage: 12 V, 24 V, 120 V, 230 V
- Output: up to 50 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting; DIN 11851, DN 65 by flange collar
- Data sheet: 3755.198



Lumistar luminaire ESL 26

- Fully enclosed power luminaire with protective glass
- Stainless steel
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from DN 50 and for screw-type sight glass fittings similar to DIN 11851
- Rated voltage: 12 V, 24 V, 120 V, 230 V, 240 V
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting; DIN 11851, from DN 65 by flange collar
- Data sheet: 3755.153



Lumistar luminaire ESL 27

- Fully enclosed power luminaire with protective glass
- Stainless steel
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from DN 50 and for screw-type sight glass fittings similar to DIN 11851
- Rated voltage: 12 V, 24 V, 120 V, 230 V, 240 V
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- Mounting by stainless steel hinged bracket to the counterflange of the sight glass fitting; DIN 11851, from DN 80 by flange collar
- Data sheet: 3755.352



Lumistar timer, internal

- The luminaire is switched on by the integrated Lumistar timer
- Suitable for potentially explosive and non-explosive environments
- The luminaire switches off automatically once the preset time of about five minutes has elapsed
- For applications with Ex and non-Ex luminaires Lumistar USL 06 and Lumistar USL 07
- The timer is started by a switch on the luminaire or by a pushbutton with NC contact in the supply line
- Data sheet: 3755.182



Lumistar luminaire ME

- Sight glass luminaire, classic crescent-shaped variant combining view port and lighting
- Stainless steel
- Suitable for screw-type sight glass fittings to DIN 11851 or similar
- Sizes: for DN 65 to DN 125
- Rated voltage: 24 V AC/DC
- Output: max. 50 W (halogen light bulb)
- Protection class: IP 65
- The luminaire is bolted to the weld-on socket using the cap nut on the sight glass fitting
- Integrated pushbutton is standard feature
- Lumistar luminaires ME 100 and ME 125 are also available as LED versions
- Data sheet: 3755.192



Lumistar luminaire SLM

- Sight glass luminaire, classic crescent-shaped variant combining view port and lighting
- Aluminium
- Suitable for screw-type sight glass fittings to DIN 11851 or similar
- Sizes: for DN 65 to DN 125
- Rated voltage: 24 V AC/DC
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- The luminaire is bolted to the weld-on socket using the cap nut on the sight glass fitting
- Integrated pushbutton is standard feature
- Lumistar luminaires SLM 100 and SLM 125 are also available as LED versions
- Data sheet: 3755.174



Lumistar luminaire 80-225

- Sight glass luminaire, classic crescent-shaped variant combining view port and lighting
- Aluminium
- Suitable for screw-type sight glass fittings to DIN 11851 or similar
- Sizes: for DN 50 to DN 200
- Rated voltage: 24 V AC/DC
- Output: up to 100 W (halogen light bulb)
- Protection class: IP 65
- The luminaire is mounted on the counter-flange of the circular sight glass fitting using two or four bolts (depending on version)
- Integrated pushbutton is standard feature
- Lumistar luminaires 100, 125 and 175 are also available with LED lamps
- Data sheet: 3755.158



Lumistar timer, external

- Time switch for limiting the lighting time
- Suitable for non-explosive environments
- Rated voltage: AC/DC 24 to 230 V
- Adjustable time range: 0.1 seconds to 20 hours
- Also available in stainless steel
- Data sheet: 3755.320



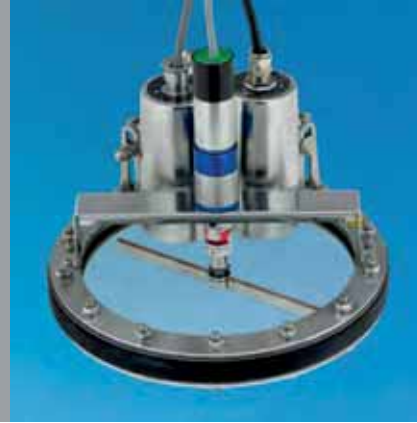
Lumistar isolating transformer ETGs/EST

- Protective transformer for universal applications, installed in a fibreglass-reinforced polyester housing
- Suitable for non-explosive environments
- For connecting 24 V luminaires to 230 V supply voltage
- Rated voltage: 230 V AC/DC
- Output: 60 VA or 125 VA
- Protection class: IP 55
- Also available in stainless steel
- Also available without plastic housing for installation in control cabinets
- Data sheet: 3755.315



Lumistar luminaire 225-LED

- Sight glass luminaire, classic crescent-shaped variant combining view port and lighting
- Aluminium
- Suitable for circular sight glass fittings to DIN 28120 or similar
- Rated voltage: 12 V AC/DC, 24-48 V AC/DC or 120-230 V AC
- Output: 2 x 3 high-intensity LEDs, approx. 22 W
- Protection class: IP 65
- Lumistar luminaires 100, 125 and 175 are also available with LED lamps
- Data sheet: 3755.434



VISULEX camera system K15-Koax

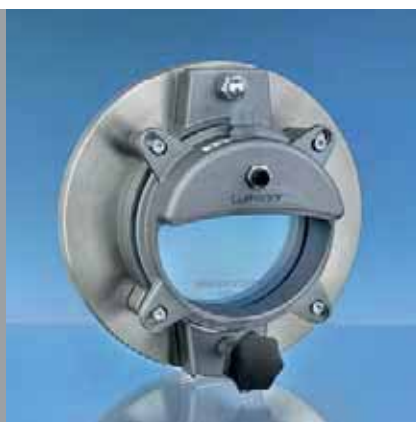
- Camera with fixed lens for the inspection and remote monitoring of processes in, e.g. vessels, agitators and outdoor installations
- Stainless steel body with integrated CCD colour camera
- Protection class: IP 65
- Ambient temperature: +5°C to +40°C
- Angle of view: 28° to 120°
- Mounting by hinged bracket to circular sight glass fittings to DIN 28120/28121 or similar, or for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: by external power supply
- Image transmission: max. 100 metres, via coaxial cable
- Image representation: PAL Germany or NTSC
- Connection to monitor or PC via video web server is possible
- Data sheet: 3755.425
- Other camera systems:
 - VISULEX camera system K15-ZP-E (zoom)
Data sheet: 3755.429
 - VISULEX camera system K15-P-E (fixed lens)
Data sheet: 3755.428

VISULEX camera system K55-P

- Camera with fixed lens for the inspection and remote monitoring of processes in, e.g. vessels, agitators and outdoor installations
- Stainless steel body with integrated CCD colour camera
- Protection class: IP 65
- Ambient temperature: +5°C to +45°C
- Angle of view: 28° to 60°
- Mounting by hinged bracket to circular sight glass fittings to DIN 28120/28121 or similar, or for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: by terminal box
- Image transmission: max. 100 metres, via combination cable
- Data sheet: 3755.379

Lumiglas Ex motor drive EMA I-Ex

- **Ex** d IIC T5 CE IIC GD 95°C
- Motor drive for connecting various control elements, especially in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Powerful Ex motor drive in small, compact design for versatile applications, incl. operating sight glass wipers on sight glass disks
- Data sheet: 3755.436



Lumiglas sight glass fitting/luminaire unit:

- Screw-type sight glass fitting similar to DIN 11851 with integrated Lumistar luminaire ME in stainless steel
- Sizes: for DN 65 to DN 125
- Rated voltage/output: 24 V, up to 50 W

Lumiglas sight glass fitting/luminaire unit:

- Hinged sight glass with luminaire ESKS
- Ready-to-fit, hinged sight glass fitting with quick-release screwed closure enables fast opening and closing
- Ideal for adding and/or drawing off substances through the fitting
- Viewing diameter:
 - ESKS 150 = 165 mm
 - ESKS 225 = 235 mm
- Rated voltage/output: 24 V, up to 100 W

Lumiglas sight glass fitting/luminaire unit:

- Circular sight glass fitting to DIN 28120 with mounted Lumistar luminaire USL 07



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Lumistar luminaire USL 05-Ex

II 2G Ex d IIC T3/T4/T6/120°C Gb
 II 2D Ex tb IIIC T80/T120/T130/T195°C Db

- Power luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class (depending on output): Gas up to T6/120°C, dust up to T80/T120°C
- Ambient temperature: -20°C to +60°C
- Explosion groups: Gas IIC, dust IIIC
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 25; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage/output, depending on lamp variant: AC/DC 12 V, 24 V - up to 20 W; AC 120 V, 230 V - 5 W (halogen light bulb)
- Electrical connection: Connecting cable 2 m, 5 m, 10 m, 20 m or Ex d cable gland, encapsulated
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.177



Lumistar luminaire USL 06-Ex

II 2G Ex d(e) IIC T3/T4 Gb
 II 2D Ex tb IIIC T130/T195°C Db

- Output luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class (depending on power): Gas up to T4, dust up to T130°C
- Ambient temperature: -20°C to +60°C
- Explosion groups: Gas IIC, dust IIIC
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 50; for screw-type sight glass fittings to DIN 11851 from DN 65
- Rated voltage/output, depending on lamp variant: AC/DC 12 V, 24 V, 230 V - up to 50 W; AC 120 V, 230 V, 240 V - 20 W (halogen light bulb)
- Electrical connection: Connecting cable 2 m, 5 m, 10 m, 20 m or integrated terminal box Ex de
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.178



Lumistar luminaire USL 07-Ex

II 2G Ex d(e) IIC T3/T4/T6/120°C Gb
 II 2D Ex tb IIIC T80/T120/T130/T195°C Db

- Power luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments: gas zones 1 and 2; dust zones 21 and 22
- Temperature class (depending on output): Gas up to T6/120°C, dust up to T80/T120°C
- Ambient temperature: -20°C to +60°C
- Explosion groups: Gas IIC, dust IIIC
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 50; for screw-type sight glass fittings to DIN 11851 from MV 100
- Rated voltage/output, depending on lamp variant: AC/DC 12 V, 24 V, 230 V - up to 75 W; AC 120 V, 230 V, 240 V - up to 50 W (halogen light bulb)
- Electrical connection: Connecting cable 2 m, 5 m, 10 m, 20 m or integrated terminal box Ex de
- Mounting by two brackets or flange collar
- Data sheet: 3755.180



Lumistar luminaire USL 08-Ex

UL-listed and c UL-listed
 Cat. No. 9N77

- Power luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments:
- Temperature class (depending on output): T4A/T3B
- Ambient temperature: -20°C to +40°C
- Ignition protection type: UL844 Class I, Div. 1 and 2
- Explosion group (gas): Groups C and D; UL 1571 for wet conditions
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 50; for screw-type sight glass fittings to DIN 11851 from DN 100
- Rated voltage/output, depending on lamp variant: AC 120 V - 35 to 100 W (halogen light bulb)
- Electrical connection: integrated terminal box
- Mounting by two brackets or flange collar
- Data sheet: 3755.191



Lumistar luminaire 'Lumiflex' USL 08 LF-Ex

compliant with UL 1598 & 844
 UL-listed Class 1

- Light guide luminaire for mounting on sight glass fittings or for illuminating processes in restricted spaces on machines and reactors
- Luminaire: Aluminium
- Light guide: Stainless steel jacket
- For applications in potentially explosive environments
- UL 1598 / UL 844
- CSA C22.2 No. 137-M1981/CSA C22.2 No. 250.0-08
- Ignition protection type: UL844 Class I, Div. 1 and 2
- Explosion group: Groups C and D; for wet conditions
- Temperature class (depending on power): T4/T5
- Ambient temperature: -20°C to +60°C
- Rated voltage/output: 120 V AC - 39 W (halogen light bulb)
- Mounting by two brackets
- Data sheet: 3755.311



Lumistar luminaire 'Lumiflex' USL 07 ALF-Ex

II 2G Ex de IIC T4/T6 Gb
 II 2D Ex tb IIIC T80/T130°C Db

- Light guide luminaire for mounting on sight glass fittings or for illuminating processes in restricted spaces on machines and reactors
- Luminaire: Aluminium
- Light guide: Stainless steel jacket
- For applications in potentially explosive environments:
- Temperature class: T4 / T6
- Ambient temperature: -20°C to +60°C
- Explosion groups: Gas IIC; dust IIIC
- Rated voltage: 24 V AC, 120 V, 230 V AC, 240 V AC
- Output: 20 W or 39 W (halogen light bulb)
- Electrical connection: Terminal box with cable gland
- Mounting by two brackets
- Data sheet: 3755.265



Lumistar luminaire USL 05-LED-Ex

II 2G Ex d IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Power luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class: Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output: 230 V AC – 4/5 W (LED)
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 25; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: Connecting cable 2 m, 5 m, 10 m, 20 m or Ex d cable gland, encapsulated
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.177



Lumistar luminaire ASL 55-LED-Ex

II 2G Ex d IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Power luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class: Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output, depending on version: AC/DC 24 V, 120-230 V, fitted with 3 or 6 high-power LEDs with 11 or 15 W
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 40; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electr. connection: Connecting cable 2 m, 5 m, 10 m, 20 m or Ex d cable gland, encapsulated
- Mounting by hinged bracket or flange collar
- Reflector: 10° or 25°
- Combination with Metaglas/Metaclamp or Neumo/BioControl is possible
- Data sheet: 3755.454



Lumistar luminaire ASL 57 LED-Ex

II 2G Ex d(e) IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Power luminaire with flameproof enclosure in aluminium
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class: Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage: 24 V AC/DC, 120-230 V AC
- Output: 35 W (high-power LED)
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 40; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: Connecting cable 2 m, 5 m, 10 m, 20 m or Ex e terminal box
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.358



Lumistar luminaire ESL 55-LED-Ex

II 2G Ex d IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Power luminaire with flameproof enclosure in stainless steel
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temp. class: Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output, depending on version: AC/DC 24 V, 120-230 V, fitted with 3 or 6 high-power LEDs with 11 or 15 W
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 40; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: Connecting cable 2 m, 10 m or Ex d cable gland, encapsulated
- Mounting by hinged bracket or flange collar
- Reflector: 10° or 25°
- Combination with Metaglas/Metaclamp or Neumo/BioControl is possible
- Data sheet: 3755.453



Lumistar luminaire 'Lumiflex' ESL 55 LED-ALF-Ex

II 2G Ex d IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Light guide luminaire for mounting on sight glass fittings or for illuminating processes on machines and reactors in restricted space conditions
- Luminaire: Stainless steel
- Light guide: Stainless steel jacket
- For applications in potentially explosive environments
- Temperature class: Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +50°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output: 24 V AC/DC, 120 V AC, 230 V AC = 7 W (LED)
- Electrical connection: Connecting cable 2 m, 10 m or Ex d cable gland, encapsulated
- Mounting by hinged bracket and light guide holder
- Data sheet: 3755.318





Lumistar luminaire REL 01-Ex

II 2G Ex ia IIC T4/T5/T6 Gb
 I M2 Ex ia I Mb

- Special sight glass luminaire for mounting on the side of rectangular sight glass fittings to optimise the monitoring of filling levels
- For applications in potentially explosive environments: Gas zones 1 and 2
- Temperature class: Gas up to T6
- Ambient temperature: -5°C to +60°C
- Explosion groups: Gas IIC
- Suitable for rectangular sight glass fittings
- Rated voltage/output: 24 V – max. 2 W LED illuminants
- Electrical connection: 3 m connecting cable included, 3 x 0.75 mm² (heat-resistant up to 90°C)
- Mounting by two bolts to the cover frame of the fitting
- Data sheet: 3755.196





Lumistar luminaire ESL 25-Ex

 II 2G Ex d IIC T4/T6 Gb
 II 2D Ex tb IIIC T80/T130°C Db



- Power luminaire with flameproof enclosure in stainless steel
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class (depending on output): Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +60°C (depending on version)
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output, depending on version:
12 V AC/DC – 5 W/10 W/20 W
24 V AC/DC – 20 W
120 V AC – 5 W/10 W
230 V AC – 5 W/10 W (halogen light bulb)
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 25; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: Connecting cable 2 m, 10 m or Ex d cable gland, encapsulated
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.194

Lumistar luminaire ESL 26-Ex

 II 2G Ex de IIC T3/T4 Gb
 II 2D Ex tb IIIC T130/T195°C Db

- Power luminaire with flameproof enclosure in stainless steel
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class (depending on output): Gas up to T4, dust up to T130°C
- Ambient temperature: -20°C to +60°C (depending on version)
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output:
12 V AC/DC – 20 W/35 W/50 W
24 V AC/DC – 20 W/50 W
120 V AC – 20 W
230 V AC – 20 W/50 W
240 V AC – 20 W (halogen light bulb)
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 50; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electr. connection: Integrated terminal box Ex de
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.193



Lumistar luminaire ESL 27-Ex

 II 2G Ex d IIC T3/T4/T6 Gb
 II 2D Ex tb IIIC T80/T130/T195°C Db

- Power luminaire with flameproof enclosure in stainless steel
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class (depending on output): Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output:
12 V AC/DC – 50 W
24 V AC/DC – 20 W/50 W
120 V AC – 50 W
230 V AC – 20 W/35 W/50 W
240 V AC – 35 W/50 W
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN 50; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: Connecting cable 2 m or 10 m, encapsulated
- Mounting by hinged bracket
- Data sheet: 3755.351





Lumiglas signalling device M55-BD-Ex

 II 2G Ex d IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Body with flameproof enclosure in stainless steel
- The signalling device automatically switches the light or other devices in Ex indoor or Ex outdoor areas on and off. It is equipped with a motion detector and a twilight switch.
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class: Gas T6, dust T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage: 24 V AC/DC or 230 V AC
- Due to its potential-free contact, the device can also be used to generate signals for other controls
- Data sheet 3755.359

Lumistar timer for Ex environments, external

 II 2G Ex e mb IIC T6 Gb
 II 2D Ex tb IIIC T80°C Db

- Electronic timer for remote settings, ideal for use with Lumistar luminaires and other electrical equipment
- For applications in potentially explosive environments: Gas zones 1 and 2; dust zones 21 and 22
- Temperature class: Gas up to T6, dust up to T80°C
- Ambient temperature: -20°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage/output: AC/DC 24 V, 120 V, 230 V
- Time range can be individually programmed by the manufacturer, from 10 seconds to 60 minutes
- Version with flasher relay also available
- Data sheet: 3755.183

Lumistar timer for Ex environments, internal

- The luminaire is switched on by the built-in Lumistar timer
- Suitable for potentially explosive and non-explosive environments
- The luminaire is switched off automatically once the preset time of about five minutes has elapsed
- For applications with Ex and non-Ex luminaires Lumistar USL 06 and Lumistar USL 07
- The timer is started by a switch on the luminaire or by a pushbutton with NC contact in the supply line
- Data sheet: 3755.182



VISULEX camera system K25-Ex

II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T80°C Db

- Camera with zoom lens for the inspection and remote monitoring of processes in, e.g. vessels and outdoor facilities
- Stainless steel body with integrated CCD colour camera
- For applications in potentially explosive environments: Gas zones 1 and 2, dust up to T80°C
- Ambient temperature: +5°C to +40°C
- Explosion groups: Gas IIC, dust IIIC
- Suitable for circular sight glass fittings from DN 65, from DN 100 using hinged bracket
- Power supply, video image transmission, camera controls/zoom, focus, etc. by cable
- Max. transmission distance: 500 metres
- Image representation: Video monitor PAL 'D'/ NTSC 'USA' or PC interface possible via video server/video web server
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.309



VISULEX camera system K55-Ex

II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T80°C Db

- Camera with fixed lens for the inspection and remote monitoring of processes in, e.g. vessels and outdoor facilities
- Stainless steel body with built-in CCD colour camera
- For applications in potentially explosive environments:
 - Gas zones 1 and 2, dust up to T80°C
 - Ambient temperature: -5°C to +45°C
 - Viewing angle: 28°, 39°, 54° or 60°
 - Max. transmission distance: 100 metres
 - Image representation: Video monitor PAL 'D'/ NTSC 'USA' or PC interface possible via video server/video web server
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.381



VISULEX camera system K07-Ex

II 2G Ex de IIC T6 Gb
II 2D Ex tb IIIC T80°C Db

- Camera with zoom lens for the inspection and remote monitoring of processes in, e.g. vessels and outdoor installation facilities
- Aluminium body with built-in CCD colour camera
- For applications in potentially explosive environments:
 - Gas zones 1 and 2, dust zones 21 and 22
 - Temperature class: Gas up to T6, dust up to T80°C
 - Ambient temperature: +5°C to +40°C
 - Explosion groups: Gas IIC, dust IIIC
- Power supply, video image transmission, camera controls/zoom, focus, etc. by cable
- Max. transmission distance: 500 metres
- Image representation: Video monitor PAL 'D'/ NTSC 'USA' or PC interface possible via video server/video web server
- Mounting by hinged bracket or flange collar
- Other variant available: VISULEX camera system K06-Ex
- Data sheet: 3755.377



Lumistar vehicle luminaire USL 07-Ex

II 2G Ex de IIC 120°C Gb
II 2D Ex tb IIIC T120°C Db

- Headlamp or reversing lamp
- Mainly for applications on special vehicles in the industrial sector such as fork lifters, stacker trucks, tank trucks, which travel primarily in potentially explosive environments
- Aluminium
- For applications in explosive environments: Gas zones 1 and 2, dust zones 21 and 22
- Rated voltage/output: AC/DC 24 V - 50 W (halogen light bulb)
- Data sheet: 3755.273



Lumistar flashing light USL 45A-Ex

II 2G Ex de IIC 120°C Gb
II 2D Ex tb IIIC T120°C Db

- Flashing light
- Mainly for applications on special vehicles in the industrial sector such as fork lifters, stacker trucks, tank trucks, which travel primarily in potentially explosive environments
- Aluminium
- For applications in explosive environments: Gas zones 1 and 2, dust zones 21 and 22
- Rated voltage/ output: AC/DC 12 V, 24 V - 50 W (halogen light bulb)
- Data sheet: 3755.273



Lumistar combination luminaire USL 46-Ex

II 2G Ex de IIC 120°C Gb
II 2D Ex tb IIIC T120°C Db

- Rear lamp, brake light and flashing light
- Mainly for applications on special vehicles in the industrial sector such as fork lifters, stacker trucks, tank trucks, which travel primarily in potentially explosive environments
- Aluminium
- For applications in explosive environments: Gas zones 1 and 2, dust zones 21 and 22
- Rated voltage/ output, depending on lamp variant: DC 12 V, 24 V - 7 W (LED illuminants)
- Data sheet: 3755.273



Oblong sight glass fitting, rectangular

- for welding into or onto the vessel wall
- Complete with sight glass plate inserted between the relevant gaskets and bolted in place
- Dimensions:
Length 250 to 1000 mm,
Width 70 mm,
Viewing port: 18 mm; max. 16 bar
- Operating temperature: 243°C with borosilicate glass DIN 7081, 100°C with soda-lime glass DIN 8903
- Materials: steel, stainless steel, special alloys
- Seal and gaskets to suit application
- Special versions
- Data sheet: 3755.170



Oblong sight glass fitting, oval

- for welding into or onto the vessel wall
- Complete with sight glass plate inserted between the relevant gaskets and bolted in place
- Dimensions:
Length 186 to 791 mm,
Width 80 to 116 mm,
Viewing port: 15 to 50 mm; max. 25 bar
- Operating temperature: 243°C with borosilicate glass DIN 7081, 100°C with soda-lime glass DIN 8903
- Materials: steel, stainless steel, special alloys
- Seal and gaskets to suit application
- Special versions
- Data sheet: 3755.438



Sight glass fitting for visual flow indication

- Flanged on both ends acc. to DIN 2642 for installation in pipes
- Application: for visual inspections and for monitoring the flow and filling level in pipelines
- Connecting flange: DIN 2642 (dimensions PN 10)
- Materials: to meet customers' requirements (steel, stainless steel, etc.)
- Overall length: DIN 3202 F1
- Max. 6 bar
- Operating temperature: max. 220°C
- Glass cylinder: borosilicate glass
- Data sheet: 3755.186



Hinged sight glass fitting SKS/ESKS

- Quick-release screwed closure enables fast opening and closing
- Applications: Ideal in facilities in which it is necessary to add and/or draw off substances during operations
- Depending on the type, the fitting is welded into the vessel wall or bolted onto a flat surface
- Viewing port: SKS 150 = 165 mm, SKS 225 = 235 mm
- Pressure-tight up to max 1.0 bar
- Operating temperature: 200°C with borosilicate glass, 150°C with soda-lime glass
- ESKS: version with luminaire
- Data sheet: 3755.169



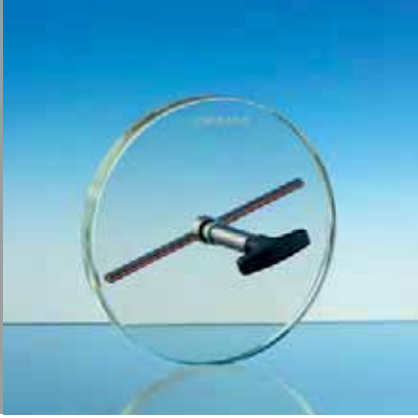
Circular sight glass disks for applications with pressure stressing

- Borosilicate glass DIN 7080
Temperature: up to 280°C
Data sheet: 3755.162
- Soda-lime glass DIN 8902
Temperature: up to 150°C
Data sheet: 3755.163
- Glass disks with hole for wiper unit
Data sheet: 3755.164
- Quartz glass
Temperature: up to 1000°C
- Fused metal-glass sight glasses
- Special glass disk versions



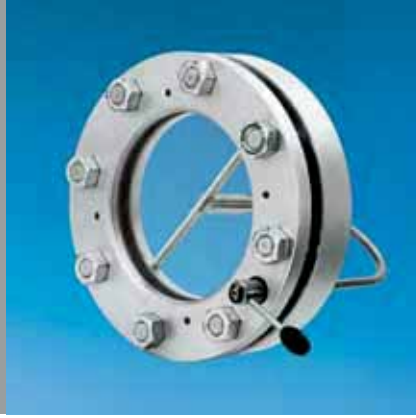
Lumiglas seals and gaskets

- for Lumiglas products and other brands
- DIN and customised versions
- Formats: flat seal, O-ring seal, O-ring seal with lip, PTFE-covered corrugated ring gaskets
- Material of seals and gaskets: silicon, PTFE, Perbutan Viton, EPDM, Neoprene, C4400
- Available from stock depending on application
- Other materials on request



Lumiglas sight glass wiper SW I

- For manual cleaning of glass disks in sight glass fittings
- For circular sight glass fittings to DIN 28120 or similar and for screw-type sight glass fittings
- Max. overpressure: 6 bar
- Temperature: up to 220°C (depending on the sight glass disk used)
- Data sheet: 3755.171



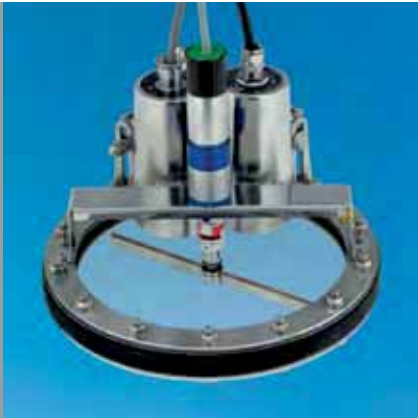
Lumiglas sight glass wiper SW II

- For manual cleaning of glass disks in sight glass fittings
- Installation with pressure-tight bolted connections through the base- and counterflange of the sight glass fitting
- Suitable for vessels that are subject to certification and used in vacuum and pressure operations in potentially explosive or non-explosive environments
- For circular sight glass fittings to DIN 28120, DN 100 - DN 200
- Max. overpressure: 16 bar
- Temp.: up to 220°C (depends on sight glass disk)
- Data sheet: 3755.172



Lumiglas spray device

- For circular sight glass fittings to DIN 28120 or similar
- Ensures the intermittent or continuous automatic cleaning of sight glass disks in sight glass fittings
- Suitable for vessels that are subject to certification and used in vacuum and pressure operations in potentially explosive or non-explosive environments
- Data sheet: 3755.173



Lumiglas Ex motor drive EMA I-Ex

Ⓢ EEx d IIC T5 CE IIC GD 95°C

- Motor drive for connecting various control elements, especially in potentially explosive environments: gas zones 1 and 2; dust zones 21 and 22
- Powerful Ex motor drive in small, compact design for versatile applications, incl. operating sight glass wipers on sight glass disks
- Data sheet: 3755.435



Metaglas and Lumiglas products

- A fused metal sight glass is made up of a sight glass disk which is fused into a metal ring
- Fused metal sight glasses can be combined with various Lumiglas products, such as
 - Lumistar luminaires
 - Lumiglas fittings
 - Lumiglas seals and gaskets
 - Lumiglas sight glass wipers

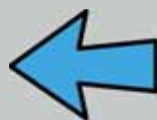


Lumiglas Ex motor drive EMA I-Ex

Ⓢ EEx d IIC T5 CE IIC GD 95°C

- Small, powerful Ex motor drive, e.g. for operating wipers on sight glass disks in short-term operations (also for continuous operations, depending on the application)
- High torque, excellent traction, low power consumption
- Explosion groups: gas IIC and dust IIIC
- Temp. class: gas up to T5, dust up to 95°C
- Ambient temperature: -20°C to +50°C
- Rated voltage: DC 12 V
- Nominal current: up to 0.5 A continuous load at 40°C
- Electrical connection: by integrated cable, 5 m
- Fastening: by special mounting
- Data sheet: 3755.436

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