







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 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 Leuchte USL 07 LED-Ex

 II 2G Ex db eb 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 +60°C
- Explosion groups: Gas IIC, dust IIIC
- Rated voltage: 24 V AC/DC, 120-230 V AC
- Output: 14 W (high-power LED)
- Suitable for circular sight glass fittings to DIN 28120/28121 or similar from size DN540; for screw-type sight glass fittings to DIN 11851 from DN 65
- Electrical connection: integrated terminal box
- Mounting by hinged bracket or flange collar
- Data sheet: 3755.363



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 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

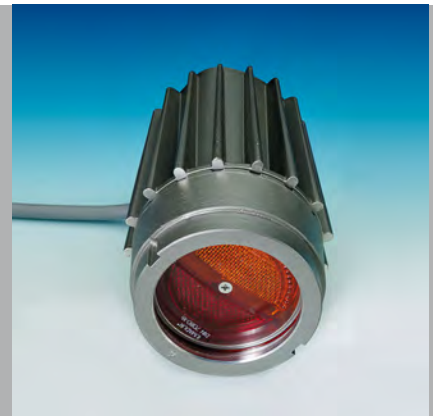
- Headlamp or reversing lamp
- Mainly for applications on special vehicles in the industrial sector such as fork lifters, stacker trucks, tank trucks, which travel primarily in potentially explosive environments
- Aluminium
- For applications in explosive environments: Gas zones 1 and 2, dust zones 21 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



Lumiglas

Process Lighting and
Visual Control Systems