

Lumiglas luminaire type USL 07

- **For mounting on sight glass fittings**
equally suited for combined sight/light port (single flange version) or separate light and sight ports (dual flange version).
- **Compact, high light output**
- **Dazzle free illumination**
- **Exceptionally large light exit thanks to carefully designed screwed lens assembly**
- **Suitable for:**
 - bolted circular sight glass fittings to DIN 28120/DIN 28121 or similar
 - screwed sight glass fittings to DIN 11851 sizes DN 100 upwards
 - flow indicators
- **Nominal sizes:** depending on fitting type; from DN 50 upwards
- **Application:**
for the illumination of the internals of normally enclosed vessels such as silos, storage tanks, reactors and agitated vessels as well as flow indicators in **non explosion hazardous areas**.
- **Suitable for use on food processing plant**
- **Protection:**
Dust and waterjet proof – when correctly installed –
IP 65 EN 60529/DIN VDE 0470 Part 1
- **Operating conditions:**
Independent of vessel internal pressure/vacuum.
On no account may the luminaire be used as a closure/means of sealing of a (pressure) vessel i. e. without a suitable sight glass fitting.
- **Ambient temperature condition operating range:**
This unit is suitable for ambient temperatures of 80°C at the cable gland. Where ambient temperature lies above 40°C, heat-resistant cable e. g. Sinotharm 110 H05GG-F 3G 1,5 mm² must be fitted.
- **Electrical data:**
This unit is suited for AC/DC voltage, depending on type of luminaire.
- **Power supply: without built-in-transformator:**
 - 24 V... halogen filament lamp 50 W or 100 W, DC/AC
 - 230 V... halogen filament lamp 50 W, 75 W or 100 W, DC/AC
- **with built-in-transformator:**
 - 230 V... halogen filament lamp 12 V/50 W, AC
 - 120 V... halogen filament lamp 12 V/50 W, AC
- **Lamp sockets:** please see table following page
- **Transformers:**
Transformers with 24 V secondary voltage are optionally available.

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Data Sheet 06.07

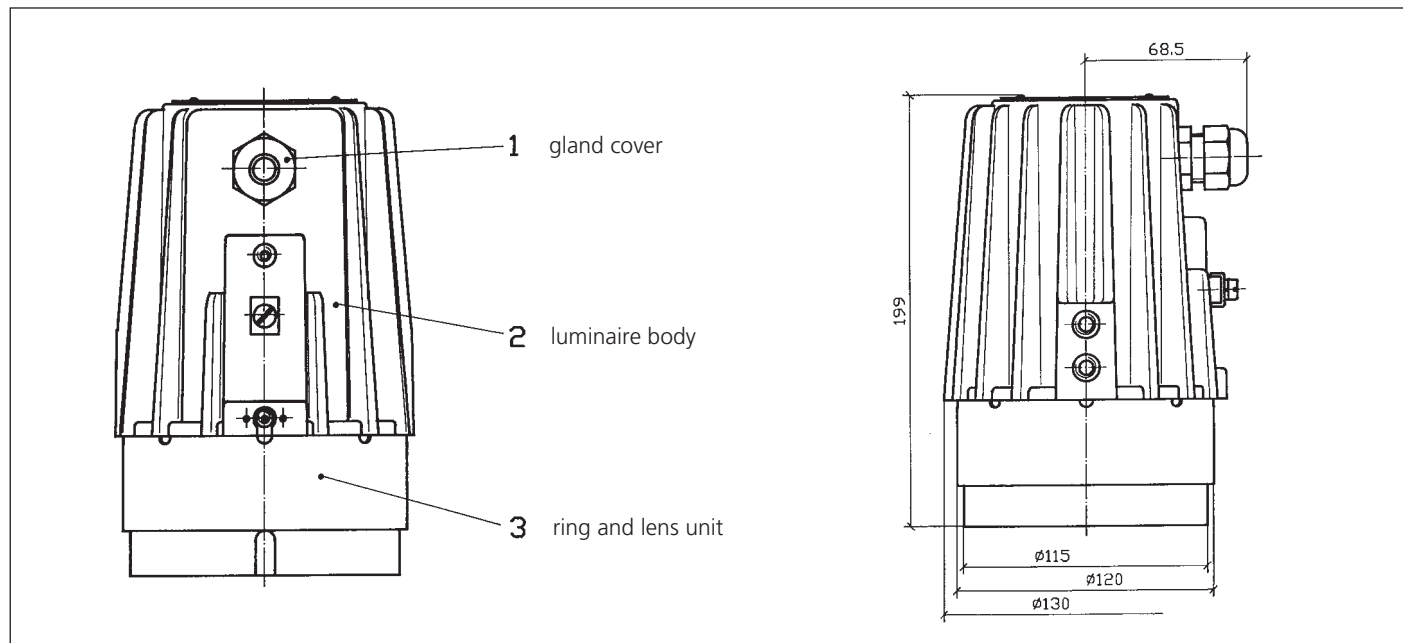


Lumiglas luminaire USL 07 with fastenings



Lumiglas luminaire USL 07
installed on a circular sight glass DIN 28120

• **Dimensions and electrical data for Lumiglas luminaire type USL 07:**



• **Parts, construction and materials:**

- **luminaire body:** corrosion resistant die cast aluminium, GK-ALSi10Mg
- **light window:** unit of aluminium ring, glass, rubber ring seal
- **fastenings:** see under 'Spares', G-ALSi10Mg
- **weight:** 2.0 kg (excl. power supply cable); 3.0 kg with built-in-transformator

• **Connecting data for Lumiglas luminaire type USL 07:**

Item	Type USL 07	Part Number	Supply Voltage	Built-in-transformator	Halogen filament lamp		
					Socket	Power Intake	Part Number
1	(24 V) 50 W	3540.604.00	24 ≈	without	GY6.35	24 V/50 W	3232.242.00
2	(230 V) 50 W	3540.607.00	230 ≈	without	E27	230 V/50 W	3232.241.00
3	(230 V/12 V) 50 W	3540.614.00	230 ~	with	GY6.35	12 V/50 W	3232.238.00
4	(120 V/12 V) 50 W	3540.612.00	120 ~	with	GY6.35	12 V/50 W	3232.238.00
5							
6	(230 V) 75 W	3540.624.00	230 ≈	without	E27	230 V/75 W	3232.239.00
7							
8	(24 V) 100 W	3540.631.00	24 ≈	without	GY6.35	24 V/100 W	3232.244.00
9	(230 V) 100 W	3540.634.00	230 ≈	without	E27	230 V/100 W	3232.247.00

• **Simple mounting by means of special brackets provides practical installation:**

The unit is usually bolted by twin brackets to the sight glass assembly, i. e. to the cover flange of a bolted circular sight glass or a through flow indicator or to the slotted cover nut of a screwed flange sight glass.

• **Lumiglas Luminaire type USL 07 can be used for the following sight glass sizes and larger:**

- bolted circular flanges acc. DN 28120: DN 50...
- circular screwed flanges acc. DN 28121: DN 50...
- through flow indicators, DN 50
- circular screwed flanges style DIN 11851: DN 100 or larger

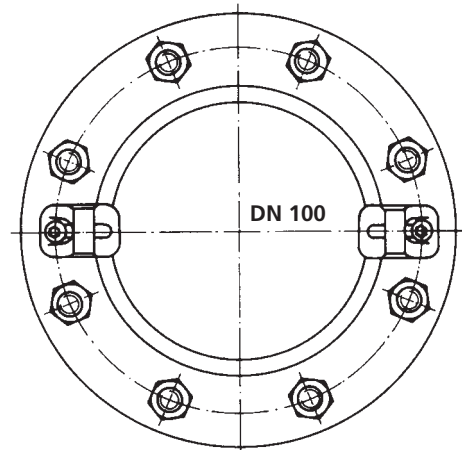
• **Simple electrical connection:**

- The cable should be suitable for the ambient conditions, for low voltage and the selected power.
- Ensure that the cable outside diameter matches and gland cover nut and seals.
- Use the special claw spanner to loosen the lens ring (3) and remove the lens ring.
- Loosen the gland cover nut (1).
- Insert gland through opening, ensure that the outer cable sheath protrudes well into the housing and that the rubber grommet is in position.
- Connect the bared leads properly to the ceramic terminal block inside the luminaire and tighten gland cover nut (1).
- When closing the luminaire, ensure that the rubber ring has been inserted properly into the groove of the luminaire body.
- Tighten lens ring (3) firmly with special spanner.

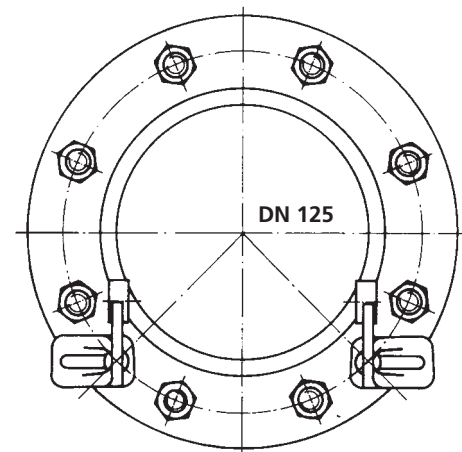
• **Screwed opening ideally suited for lamp change:**

- Switch off the luminaire and disconnect the power supply.
- Use the special claw spanner to loosen the lens ring (3) and unscrew the lens ring.
- Replace halogen lamp, ensure bare fingers do not touch the glass, lamps with E 27 socket are screwed in, the other types have two pins and are plugged into the socket.
- Refit lens ring, tighten firmly with special spanner.
- Reconnect power.

Light Port Installation
on twin bracket fastening 1.0354.005.91
suitable for fittings DN 50 to DN 100



Light/Sight Port Installation
fastening 1.0354.006.91
suitable for fittings DN 125 to DN 200



• Additions and spares for Lumiglas luminaire type USL 07:

Item	Part Number
lamp mounting straight bracket (DN 50 to 100) – only for use as lighting unit	0354.005.00
lamp mounting angular bracket (DN 125 to 200) – for use as light/sight port combination	0354.006.00
'Lumiglas-Timer': electronic time delay switch, 5 minutes on/off – factory installed	
lens ring unit (screwed lens assembly)	1774.066.00
reflector (spot type)	5904.049.00
reflector (flood type)	5904.050.00
O ring seal (Viton)	0862.040.00
special claw spanner (to loosen the lens ring)	6805.002.00
lamp socket GY6.35 (2-pin)	1202.012.00
lamp socket E27	1202.019.00
halogen lamps	see table page 2