

## Installation and Operating Instructions **CE**

### Lumistar Luminaire ESL 53-LED, Stainless Steel

ESL 53-LED-KS: for general use with hinged bracket  
 ESL 53-LED-B: special sterile version for flange attachment for fitting over flanges, collars, etc.

• **Important, please note:**

Sight glass luminaires are purpose-designed and are intended solely for mounting on sight glass fittings. Under no circumstances should a luminaire be utilised as a substitute for the cover flange or the complete sight glass flange fitting or used on its own to cover a vessel port. These luminaires must always be installed, connected and serviced by persons who have been specially trained and authorised to do this work.

• **Electrical data – general**

- The voltage, output and protection class are specified on the type plate
- Excess voltage will cause the luminaire to fail prematurely

• **General operating conditions:**

- Independent of internal pressure/vacuum in the vessel
- Max. permissible ambient temperature: 40°C

• **Mechanical installation:**

The Lumistar luminaire ESL 53-LED with the appropriate mounting element fit the following sizes:

Type of fitting	from DN	Hinged bracket	Flange adapter
Sight glass fitting, circular acc. to DIN 28120/28121	50	with	without
Flow sight glass	50	with	without
Screw-type sight glass fitting acc. to DIN 11851	50/65	without	with
	80	with	with
	100	with	without
	125	with	without

**Mounting with hinged bracket:**

The hinged bracket is used to mount the luminaire on the cover flange of a circular sight glass fitting (or flow sight glass) or to the slotted cover nut of a screwed sight glass to DIN 11851. The hinged bracket is fixed in place in a blind hole tapped on the bolt pitch circle of the cover flange face, using the M6 screw provided. Alternatively, the bracket can be welded on.

**Mounting with flange adapter:**

The flange adapter is mounted between the glass lens and the slotted cover nut (DIN 11851). To do this, an appropriate gasket is placed between the glass disc and the adapter before tightening the grub screws located around the edge. The adapter may have to be ordered separately if it is not included in the scope of supply.

**The Lumistar luminaire ESL 53-LED-B fits on the sight glass unit specified below using the appropriate mounting attachment, as follows:**

The luminaire is mounted over a special circular collar or connecting piece on the cover flange and secured in place. An O-ring is inserted as a seal for the sight glass. A tried-and-tested alternative is to mount the luminaire using an adapted clamped joint to DIN 32676/ISO 2852. The tapered mating flange to the nozzle clamp flange forms a special ring construction with a concentric sight glass fused into the metal and an upstand with a groove for the O-ring on the outer surface. The extended, reinforced lip of the Lumistar



Lumistar luminaire ESL 53-LED with hinged bracket

luminaire ESL 53-LED-B forms a sleeve which fits over the collar, with the O-ring providing the seal to the clamp flange. Tightening the clamp then provides the necessary closing pressure and seals the fused metal-glass disk towards the connecting piece.

• **Electrical connection:**

- The connecting cable (3 m) comes ready connected to the luminaire via the cable entry gland.
- The unit is internally wired and ready for use.

• **Caution:**

- Avoid looking into the light source – risk of damage to the eyes!
- Check the temperature of the lamp body before opening the luminaire.

• **Replacement parts and order data:**

Item	Part no.	Application
Luminaire attachment hinged adapter DN 50	1356.027.00	DIN slotted nut
Luminaire attachment flange adapter DN 65	1356.030.00	Slotted nut with 65 mm viewing aperture
Luminaire attachment flange adapter DN 80	1356.031.00	DIN slotted nut
Cover seal	0854.172.00	
Switch	8531.023.00	
Pushbutton	8531.022.00	

• **Installation notes:**

- 'Instructions relating to risk of fire or injury' and 'Important safety precautions' or relevant instructions together with the advice to 'Keep these instructions in a safe place' or similar take priority
- For power supply and series: see chart

• **Maintenance:**

- The luminaire should be kept clean and free of dust
- Please use original replacement parts only