

Lumiglas Luminaire Type ESL 26-Ex



**II 2G Ex de IIC T3/T4
II 2D Ex tD A21 IP67 T195°/T130°C**

For mounting on sight glass fittings

This Ex-type sight glass luminaire is designed for universal applications in potentially explosive environments. It is ideal for use in combined sight and light-glass arrangements, either as a single flange version or with two separate flanged ports.

Compact yet powerful:

Glare-free illumination for use with Circular Sight Glass Fittings type DIN 28120 or similar, Flange Bolt-On, Weld-Neck type MV Fittings, Sanitary Ferrule Connections, and Visual Flow Indicators.

Exceptionally large lens optimizes light output

Application:

For illuminating the interior of reactors, tanks, hoppers, silos, agitators and other typically pressurized vessels as well as visual flow indicators in **potentially explosive environments**.

Gas: Zones 1 and 2; Dust: Zones 21 and 22.

Suitable for use in pharmaceutical and food processing industries.

Protection: IP 65 and IP 67 to DIN EN 60529, NEMA 4X

Operating conditions: Independent of the internal pressure/vacuum in vessel. On no account should a sight glass luminaire be used on its own to seal a vessel port or to replace the cover flange or the sight glass/luminaire assembly.

Lumiglas luminaires of this series are approved for use in ambient temperatures of up to 60°C, depending on the lamp bulb fitted.

Technical data Ex protection:

This luminaire meets the essential safety and health requirements by complying with the regulations for

a) Gas

- EN 60079-0: 2006 General requirements
- EN 60079-1: 2007 Flame-proof Enclosure
- EN 60079-7: 2007 Increased Safety (relates to terminal box)
- Explosion group: IIC (including IIA and IIB)
- Temperature class: T1 to T4 (depending on wattage)

b) Dust

- EN 61241-0: 2006 General Requirements
- EN 61241-1: 2004 Protection by Enclosures
- Temperature class: (depending on wattage)

EC type-examination certificate: EC Type-Examination Certificate

BVS 08 ATEX E 138



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Voltage type: Alternating/direct current, depending on lamp

Operating voltage:

without integrated transformer:

- 12 V... Halogen lamp 20 W, 35 W or 50 W
- 24 V... Halogen lamp 20 W or 50 W
- 230 V... Halogen lamp 50 W

with integrated transformer; PTC-protected

- 120 V... Halogen lamp 12 V/20 W
- 230 V... Halogen lamp 12 V/20 W
- 240 V... Halogen lamp 12 V/20 W

Simple electrical connection via integrated terminal box. Simple lamp replacement thanks to optimal threaded ring design.



Stainless steel Lumiglas luminaire, type ESL 26-Ex

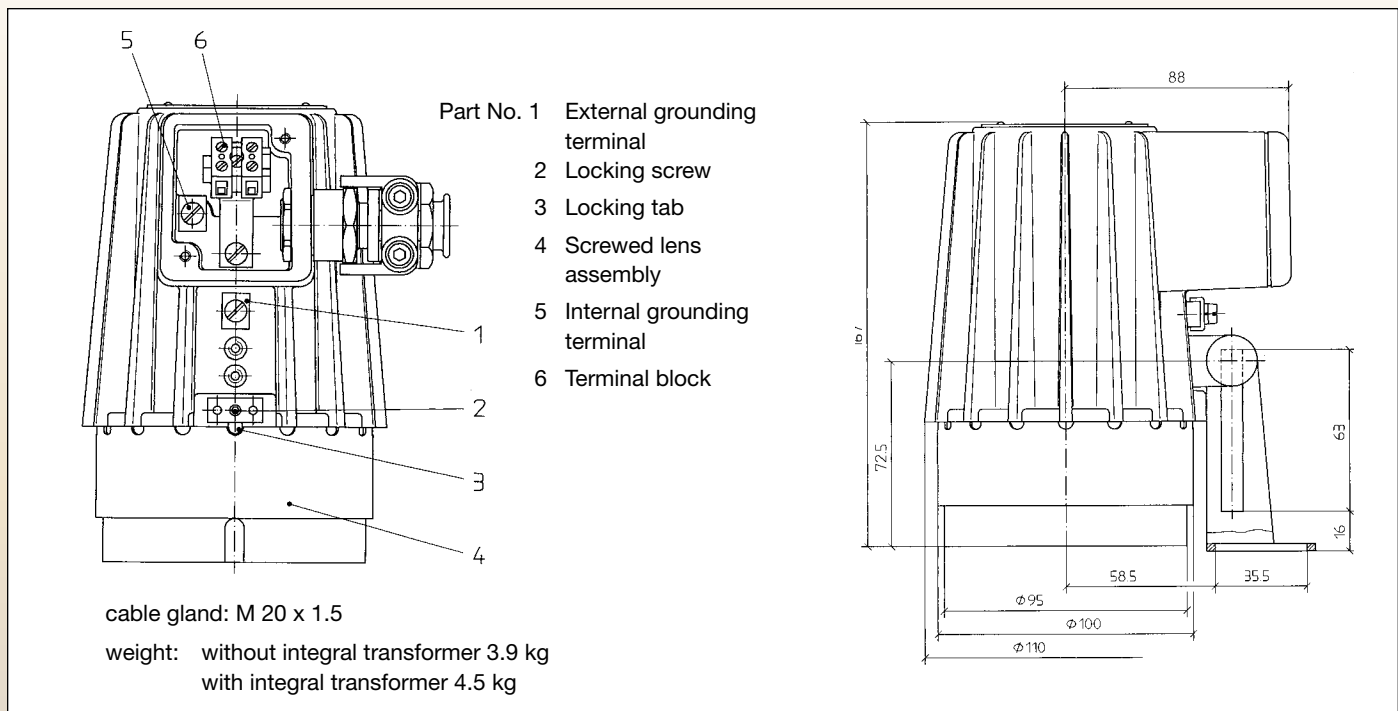


Application as combined sight and light port on a sight glass fitting to DIN 28120; mounted with a hinged bracket

Type ESL 26-Ex fits the following nominal sizes:

- a) circular sight glass fittings to DIN 28120, Flange Bolt-On and visual flow indicators; mounting on the cover flange: from 2" / DN 50 and larger
- b) Weld-Neck type sight glass fittings similar to DIN 11851; mounting on or below the nut:
 - DN 65, 80, 100: on flanged adapter collar
 - DN 80, 100, 125: on hinged bracket
 - DN 80, 100: on flanged adapter collar or hinged bracket
- c) Sanitary Clamp Connection from 1" and larger

Dimensions for Lumiglas Luminaire Type ESL 26-Ex



Parts, construction and materials:

- Luminaire body: stainless steel 1.4404 (316L), polished
- Mounting bracket: stainless steel with M8 bolt

Item	Type ESL 26-Ex	Part No.	Supply Voltage	Built-in Transf.	Halogen Filament Lamp		Ambient temperature range			
					Voltage	socket	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$		$-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	
1	(12 V) 20 W	3540.801.00	12≈	without	12 V/20 W	GY6.35	2G T4	2D T130°C	2G T4	2D T130°C
2	(24 V) 20 W	3540.803.00	24≈	without	24 V/20 W	G4	2G T4	2D T130°C	2G T4	2D T130°C
3	(120 V/12 V) 20 W	3540.808.00	120~	with	12 V/20 W	GY6.35	2G T4	2D T130°C	2G T4	2D T130°C
4	(230 V/12 V) 20 W	3540.810.00	230~	with	12 V/20 W	GY6.35	2G T4	2D T130°C	2G T4	2D T130°C
5	(240 V/12 V) 20 W	3540.811.00	240~	with	12 V/20 W	GY6.35	2G T4	2D T130°C	2G T4	2D T130°C
6	(12 V) 35 W	3540.816.00	12≈	without	12 V/35 W	GY6.35	2G T4	2D T130°C	-	-
7	(230 V) 40 W	3540.821.00	230≈	without	230 V/40 W PAR 20	E14	2G T3	2D T195°C	-	-
8	(12 V) 50 W	3540.826.00	12≈	without	12 V/50 W	GY6.35	2G T3	2D T195°C	-	-
9	(24 V) 50 W	3540.831.00	24≈	without	24 V/50 W	GY6.35	2G T3	2D T195°C	-	-
10	(230 V) 50 W	3540.834.00	230≈	without	230 V/50 W Hi-Spot	GZ10	2G T4	2D T130°C	-	-
11	(230 V) 50 W	3540.836.00	230≈	without	230 V/50 W PAR 20	E27	2G T3	2D T195°C	-	-

Ordering information:

example: Lumiglas Luminaire Type ESL 26-Ex, 230 V/12 V, 20 W
 (please advise if luminaire to be supplied with flood reflector)

