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

#### • 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:

Dazzle-free illumination; for use with circular sight glass fittings to DIN 28120/DIN 28121 or similar, with screw-type sight glass fittings in compliance with DIN 11851, and in visual flow indicators.

- Optimum screw-in lens design ensures maximum light efficiency
- Application:

For illuminating the interior of tanks, hoppers, silos, agitators and other - normally closed - 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 food processing industries.

- Protection: IP 65 and IP 67 to DIN EN 60529
- Operating conditions: Independent of the internal pressure/ vacuum in vessel. On no account should a sight glass luminaire be used on its own to close a vessel port or to replace the cover flange or the sight glass/luminaire assembly.
- Lumistar 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: 2012 General Requirements

EN 60079-1: 2007 Flame-proof Enclosure 'd'

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 60079-0: 2012 General Requirements EN 60079-31: 2009 Protection by Enclosures 't' Explosion group: IIIC (includes III A and III B)

Temperature class: T130°/T195°C (depending on wattage)

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 20 W or 50 W 24 V... Halogen lamp

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

• Straightforward electrical connection via integrated terminal box. Simple lamp replacement thanks to optimal screw ring design.

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Lumistar luminaire ESL 26-Ex, stainless steel



Application as combined sight and light port on a sight glass fitting acc. to DIN 28120; mounted by way of a hinged bracket

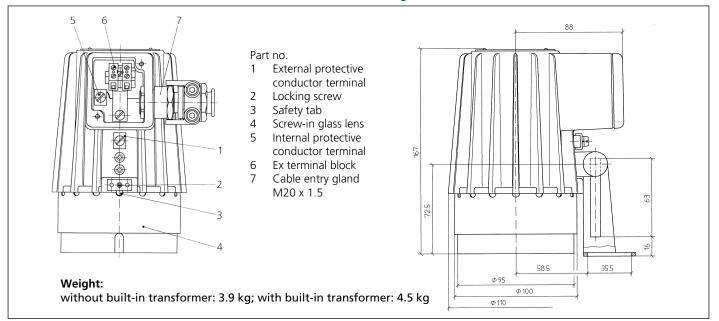
#### • Lumistar luminaire ESL 26-Ex fits the following nominal sizes:

- a) circular sight glass fittings to DIN 28120, DIN 28121 and visual flow indicators; mounting on the cover flange: from DN 50 up
- b) screw-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 und 100: either on flanged adapter collar or hinged bracket





#### • Dimensions and electrical data for Lumistar luminaire ESL 26-Ex with integrated terminal box:



#### • Components and materials:

- Body of luminaire: Stainless steel 1.4404 (316LF), polished
- Fastening components: Stainless steel

#### • Connecting data: Temperature classification and electrical parameters (see also EC Type-Examination Certificate)

No.	Type ESL 26-Ex	Part No.	Voltage	Built-in	Halogen lam	p*	Ambient temp -20°C ≤ T <sub>a</sub> ≤ +40°C		perature range	
				transf.	Voltage	Socket			-20°C ≤ T <sub>a</sub> ≤ <b>+60°C</b>	
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	(12 V) 50 W	3540.826.00	12 ≃	without	12 V/50 W	GY6.35	2G T3	2D T195°C	-	-
8	(24 V) 50 W	3540.831.00	24 ≃	without	24 V/50 W	GY6.35	2G T3	2D T195°C	-	_
9	(230 V) 50 W	3540.834.00	230 ≃	without	230 V/50 W Hi-Spot	GZ10	2G T4	2D T130°C	-	_

#### • Order data (\*please specify if flood reflector is preferred):

e. g. Lumistar luminaire ESL 26-Ex 230 V/12 V 20 W, part no. 3540.810.00; with accessory: hinged bracket, part no. 0354.016.00

### • Accessories:

No.	Component	Part No.
1	Stainless steel mounting (hinged bracket) for luminaire	0354.016.00
2	Stainless steel mounting (flanged adapter collar) for luminaire	1356.015.00
3	Lumiglas timer module, integrated, for time-related illumination, 5 min.	on request
4	Lumiglas timer module, Ex-timer switch, external, for time-related illumination	on request
5	Claw spanner for screw-in lens, for opening the lamp	6805.001.00

All dimensions in mm unless stated otherwise. Subject to change without prior notice. 09.15

