

LumiStar Luminaire ESL 53LED Ex


II 2G Ex db IIC T6 / T4 Gb
II 2D Ex tb IIIC T85°C / 130°C Db

Application:

For safe use in hazardous areas of zones 1, 2, 21 and 22 (gas and dust).

This Lumistar version has an extremely small design and powerful light output.

- For illuminating the interior of vessels, tanks, agitators, silos and other generally closed containers and reactors and also in visual flow indicators in explosive environments.

Compatible with circular sightglass fittings according to DIN 28120 or similar, flange bolt-ons, weld-neck type, sight glass fittings MV, sanitary clamp connections and visual flow indicators.

LED technology guarantees even lower energy consumption, longer operating life and flexible light color.

Fits the following nominal sizes:

- For circular sight glasses according to DIN 28120, and visual flow indicators, mounting on the cover flange: from DN 50 or 1".
- For weld-type sight glass fittings similar to MV
- Circular ANSI bolt-on sight window: from size 1"
- Visual flow indicator: from size 1"
- Sanitary clamp connection series MetaClamp: from 1"

Protection Class:

IP 65 and IP 67 according to DIN EN 60529

Ambient Temperature:

From -20°C up to +50°C.

Ambient temperature range: -20°C ≤ T_a ≤ +40°C / +50°C

Technical Data Ex Protection:

Approval according to directive 2014/34/EU

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

a) Gas

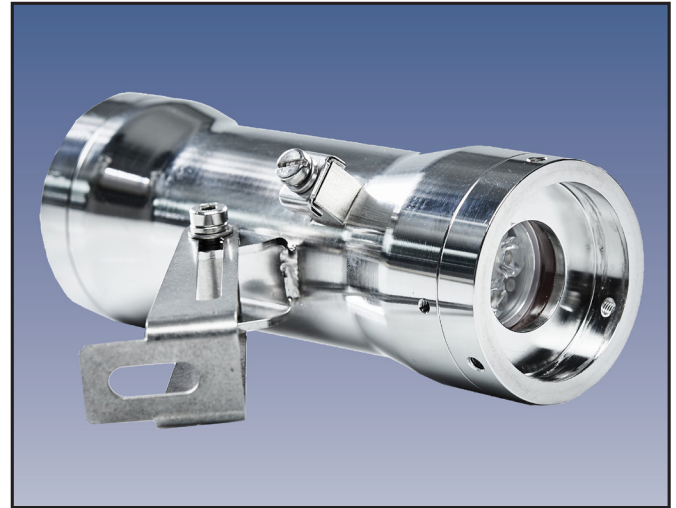
EN IEC 60079-0:2018	General Requirements
EN 60079-1:2014	Flame-proof Enclosures „d“
Explosion group	IIC (includes IIA und IIB)
Temperature - class	T6 at 40°C / T4 at 50°C

a) Gas

EN IEC 60079-0:2018	General Requirements
EN 60079-31:2014	Protection by Enclosures „t“
Explosion group	IIIC (includes IIIA und IIIB)
Temperature - class	T85°C at 40°C / T130°C at 50°C


Operating Voltage:

24 V AC/DC - 7 W



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EU-Type Examination Certificate BVS 20 ATEX E 016


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II 2D Ex tb IIIC T85°C / 130°C Db

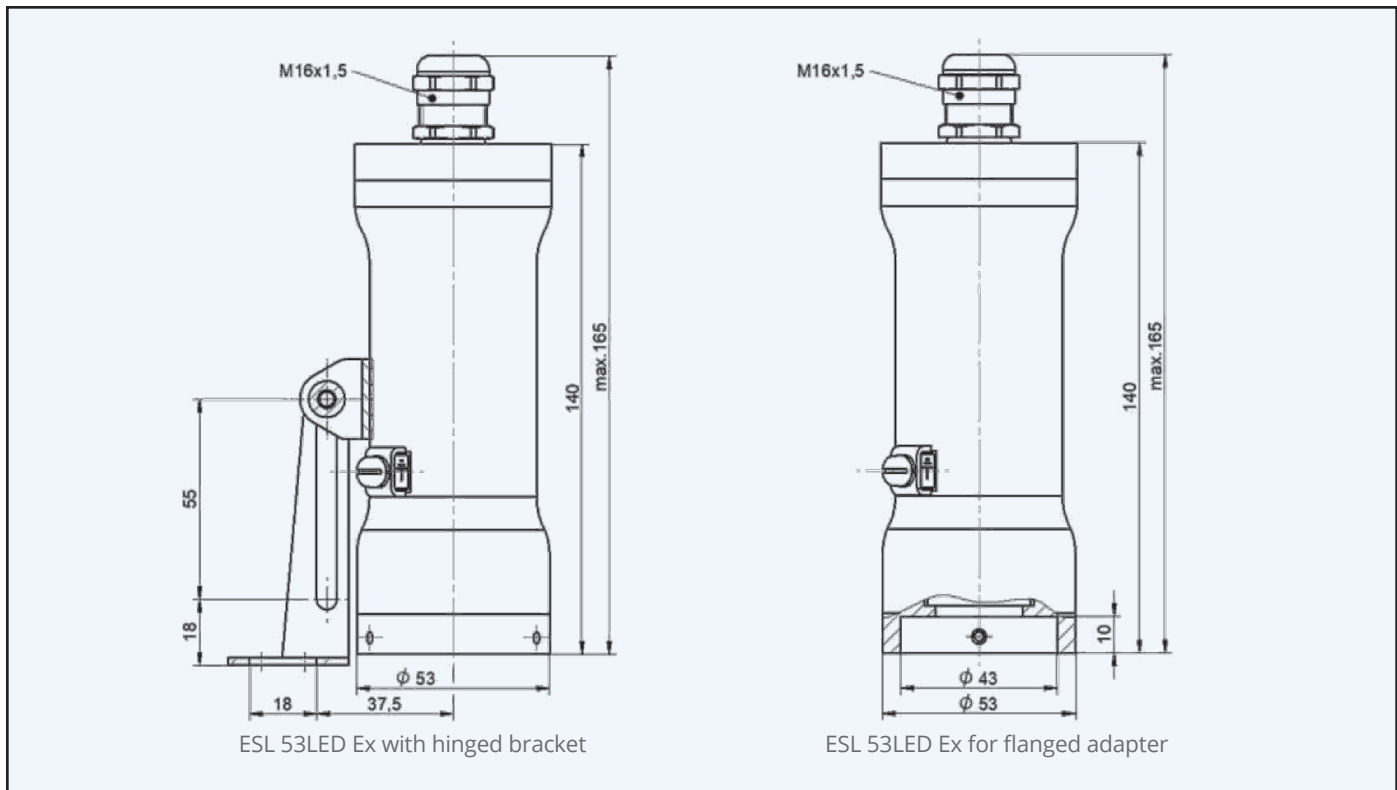
Electrical Connection:

Cable gland at the top of the luminaire cover cable length: min. 3m

Fastening:

In the assembly of a circular sight glass fitting and visual flow indicators, the luminaire is fixed to the cover flange with the hinged bracket. With a MetaClamp light port, the luminaire is fixed with set screws on light and sealed with an o-ring (provided)

Dimensions and electrical data for LumiStar ESL 53LED Ex



Components and Materials:

- Luminaire body: Stainless steel
- Glass: Borosilicate
- Fastening parts: Stainless steel

Weight:

1.7 kg including hinged bracket and cable

Voltage	Power	Luminous flux	Light color *	Beam angle	Mounting	Part No.
24 V AC/DC	7 W	400 – 500 lm	5700 K cold white	19°	Hinged bracket	53EX-A2KNANØN
24 V AC/DC	7 W	400 – 500 lm	5700 K cold white	19°	Flanged adapter	53EX-A2KNNNØN

* Other light colors on request

Accessories:

Luminaire mounting without field of view	Part No.
Flanged adapter DN 50, (slotted nut opening: 62 mm)	1356.045.00
Flanged adapter DN 60, (slotted nut opening: 65 mm)	1356.036.00
Flanged adapter DN 80, (slotted nut opening: 80 mm)	1356.077.00
Luminaire mounting with field of view for MV	
for nom. diameter DN 80 (slotted nut opening: 94 mm)	0354.035.00
for nom. diameter DN 100 (slotted nut opening: 115 mm)	0354.036.00
for nom. diameter DN 125 (slotted nut opening: 138 mm)	0354.037.00

Ordering Information

Part-no 3542.151.00 Lumistar luminaire ESL 53LED Ex