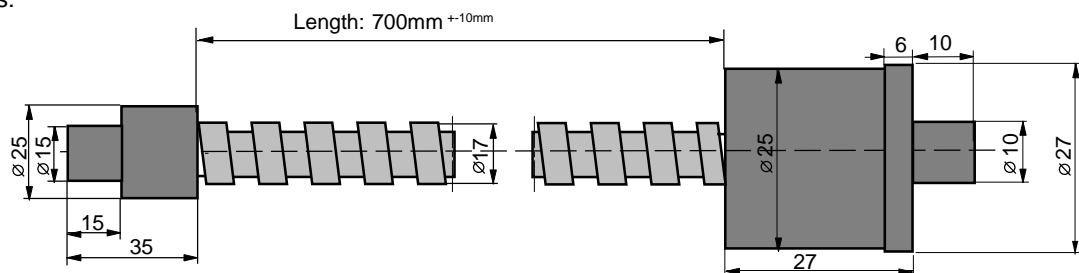


**Fibre Optic Type VA-700-10-L-GF**

- Alloyed special steel protection sheath V2A for illumination applications
- Applicable for illumination into the Ex zones 1, 2, 20, 21, 22 (The fibre optic must be mounted outside of hazardous locations)
- Length 700mm

Type	VA-700-10-L-GF
<b>Technical Data</b>	
Length	700mm
Ex protection	Associated device to a light source [Ex op is T4 Ga Da] IIB
Application for illumination to Ex zones	1, 2, 20, 21, 22
Requirements to the light source	Limited optical output power [Ex op is T4 Ga Da] IIB
Maximum optical input power	<=4400mW
Maximum potential irradiance	<= 5mW/mm <sup>2</sup> (Behind glass: Thickness 11mm, Borosilicate)
Active fibre optic diameter	10mm
Active cross-sectional area	78.5mm <sup>2</sup>
Minimum radiation area	506mm <sup>2</sup> (Behind glass: Thickness 11mm, Borosilicate)
Transmission, maximal	70%
Minimum optical aperture	70°
Individual fibre diameter	50um
Minimum bending radius	100mm (Single bend)
Operating temperature range TA	0°C < TA < +120°C
Enclosure rating at EN 60529	IP 68
Material light source adaption	Special steel, V2A
Material probe tip	Special steel, V2A
Material protection sheath	Special steel, V2A
Options	--

Dimensions:


**Operating Manual / EC - Declaration of Conformity:**
**Mounting prescriptions for Ex protection**

The fibre optic type VA-700-10-L-GF serve for the illumination into Ex hazardous locations, zones 1, 2, 20, 21, 22. He must only be used with associated light sources types LQOP-TWS-GF S164, with limited optical output power. The fibre optic must be mounted out of hazardous locations. The viewing glass into the hazardous location must have a thickness of minimum 11mm and the material must be Borosilicate S25. The maximum optical irradiance inside the Ex zone is less than 5mW/mm<sup>2</sup>. The fibre optic must be grounded over the connected light source reliable and noncorrosive.

It is necessary to take into consideration the valid international and national rules and regulations. The maximum rated optical input power must not be exceeded. Other than original manufacturer, additional optical lenses are not allowed in hazardous locations. The fibre optics have to be installed in a manner to avoid tensile stress and frictional heat.

**Transmission**

The fibre optics must not be buckled or laid with a small radius. Buckled or bad laid fibre optics results to a strong decrease of performance.

**Maintenance**

The fibre optics are maintenance-free. Protect the fibre optics against pollution. If they are contaminated, clean with alcohol. Do not use aggressive solvents.

**General Notes**

We reserve the right to modify our equipment. Our equipment is designed such way, that it has the least possible adverse

effect on the environment. It neither emit or contain any damaging or siliconized substances and use a minimum of energy and resources. No longer usable or irreparable units must be disposed of in accordance with local waste disposal regulations.

**Safety Informations**

When installing and operating with the sensor, it is necessary to take into consideration the relevant international and other national regulations. ATEX 118a, ElexV, TRbF, TRD, UVV, EX-RL, BetrSichV.

Standards met:

- EN 13463-1:2002, EN 13463-1 Correction 1:2003
- IEC 60079-28 Ed.1.0 CDV; EN 60529:2000
- Ex protection, 94/9/EG (ATEX 100a)
- Machine directive, 98/37/EG
- RoHS, 2002/95/EG
- Tech. File Ref.: AN-MAT-08-EX-LQX:2008

**Declaration of Conformity:**

Declaration of conformity by manufacturer. Tech. File Ref.: AN-MAT-08-EX-LQX:2008.

ATEX certification of quality type production of Ex devices at the directive 94/9/EC

Certification No: BVS 03 ATEX ZQS / E118.

The conformity of the devices with the EC standards and directives and the observation of the Quality Safety System ISO 9001:2000 with the ATEX module "Production", declares:

Hans Bracher, Matrix Elektronik AG

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