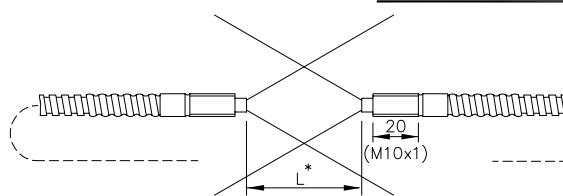


## Light Barrier for Glass Fibre Optics Type JV103/4GFK

### with Pollution Warning Output

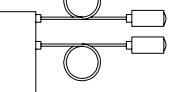
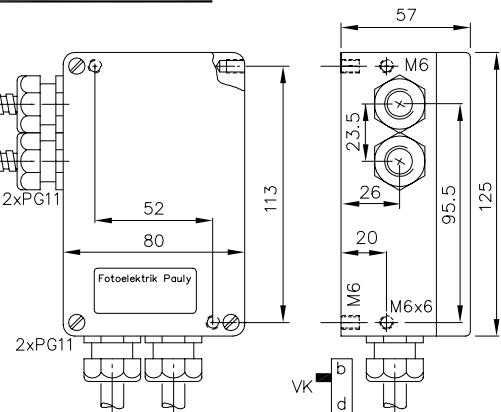


#### Hints:

The radiation angle of open-ended glass fibre cable is in the range of 37°. At longer distances or with lower radiation power use of a lens system (e.g. GGFK) is recommended.

The temperature of glass fibre cable and optics should not exceed 200°C.

\* Distance L: up to 5m without lenses  
up to 25m with lenses



0...5(25m)

Light Barrier  
for Glass  
Fibre Optics  
with  
Pollution  
Warning  
Output

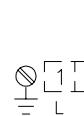
JV103/4GFK

#### Technical characteristics of minimum type:

Housing	Al-Cast
Weight	approx. 700g
Protection mode	IP65
Connection	Terminal strip
Supply	24VDC/60mA without load
Output	2xpnp, 60mA s.-c.-prot., e2
Signal mode	bright-/darkswitching, selectable
Transmitter light	GaAs 880nm, invisible
Steady light resistance	>80kLx
Interference suppress.	forced synchronization
Access time	<12ms/switch transition
Switching rate	electron.: 40/s; Relay: 10/s
Switch indicator	LED's green, red
Ambient temperatur	-25..+60°C

#### Connection diagram:

Minimum type



Relay  
230VAC  
AK

Relay  
VK

24VDC  
AK  
VK

+ 0  
e2  
e2

230VAC  
115VAC  
45VAC  
N

Universal  
transformer

#### Accessories:

Glass fibre cable GFK.. or GFK..SI  
GFK-Optics, e.g.: GGFK, EGFK, A(t)-GFK  
Cooling water flange KW26

#### Optic accessories:

Adjustment flange  
Cooling water flange  
Anti dust tube  
Diaphragms, special filters  
Reflectors for reflex optics

#### Features:

##### Connection

4 pin Plug stLU4

4+1 pin Plug stA5

6+1 pin Plug stA7

5+1 wire no.-cable K6

2x3 wire no.-cable 2K3

24...80VDC

230V, 110...130V, 42...48V, 24VAC or

230/115/45VAC with universal transformer

Relay 250VAC/10A, 2500VA, 1xCh, R

npn 60mA s.c.-prot., e3

Optocoupler 60V/50mA, e1

"q": <2ms/switch transition

"q": 300/s, Relay: 10/s

0...10s, switching-on-off-delay,

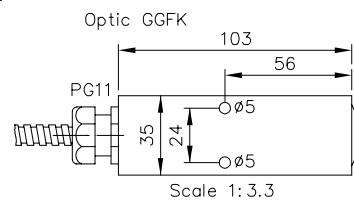
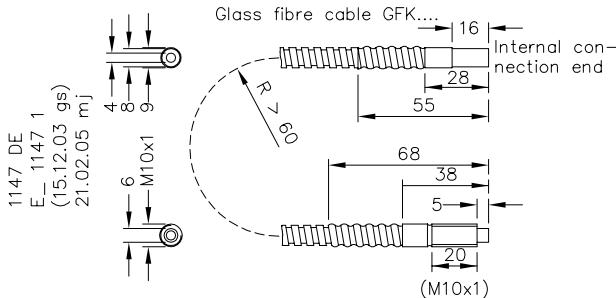
separately adjustable, z10 (AK only)

DIANA, i

If using cooling water flange, then milled wall, y

**Hints:** The switching equipment for the pollution warning (VK, red LED) is switched through when dirt or clogging causes the signal level to be under five times the minimum level.

\*E\_1147 1.TXT\*



Optic GGFK

PG11

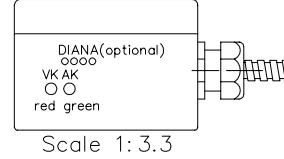
0.05

35

24

0.05

Scale 1: 3.3



Scale 1: 3.3