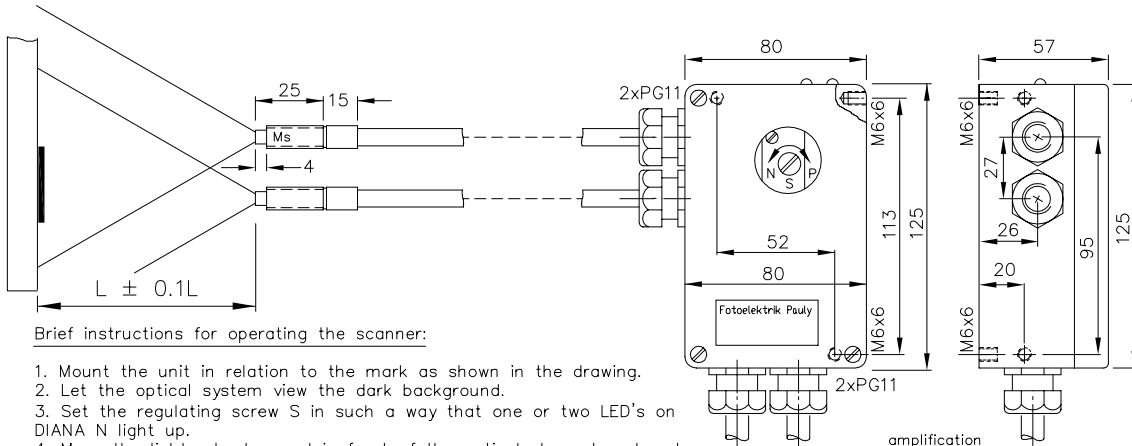


Paper Break Detector Type TRI143210 GFK

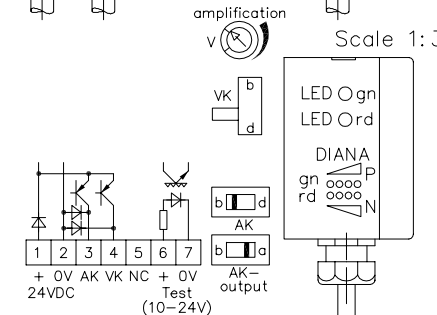


Brief instructions for operating the scanner:

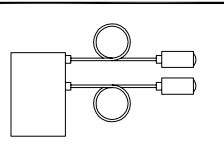
1. Mount the unit in relation to the mark as shown in the drawing.
2. Let the optical system view the dark background.
3. Set the regulating screw S in such a way that one or two LED's on DIANA N light up.
4. Move the lighter background in front of the optical element and make sure that at least two or more DIANA P LED's light up. If this is not possible in rare cases (very low contrast), amplification can be moderately increased with the "V" potentiometer. Reset then. If the setting is not possible, even with maximum amplification, the contrast cannot be recognised.

General notes:

Alterations of distance as well as contamination on the optical elements will affect the system settings.* Contamination on the optically sensitive areas may cause the system to malfunction if weak contrasts have been set.* If the red and green LED's light up simultaneously, then the usable signal only has a two- to threefold reserve, this contamination warning signal can be evaluated at the "VK" control output. Applying voltage to the "test" input switches the transmitter off. The AK transistor can be bridged to terminal 3 with the "AK-Ausg." switch. The "AK" switch alters the switching mode from bright to dark triggering. The radiation angle of open-ended fibre-optic cable amounts to about 37°. At longer distances or with lower radiation power, the use of a lens system is recommended and even necessary. The temperature of fibre-optic cables and optics should not exceed 200°C. For use on dry elements in paper machinery, fibre-optic cables tightly encapsulated with silicon tube (GFKnnSI) are necessary as otherwise the light conductor will be blind when steamed. E_ 469x 1.TXT



DIANA: Digital ANALog indicator
 Poti V: Receiver amplification
 AK-Output: b: bridged, a: active
 AK, VK: b: bright-, d: darkswitching
 S: reference screw



$L \pm 0.1L$
 (L dependent on optical units)

Paper Break Detector

TRI143210GFK

Order no.:

4693

Technical Characteristics:

Housing	Cast aluminium
Weight	approx. 650g
Protection mode	IP65
Connection	Terminal block with 2xPG11
Supply	24VDC/60mA without load
Output	pnp, 60mA, s.c.-prot., e2
Mode of operation	Internal reference
Reference adjustment	Reference screw's light channel
Transmitting light	GaAs 880nm, invisible
Constant light resistance	>80kLx
Interference suppression	forced synchronization
Access time	<12ms/switch transition
Switching rate	~40/s
Switch indicator AK/VK	LED red/green
Level indicator	DIANA P & DIANA N
Ambient temperature	-25...+60°C

Accessories:

- Fibre-optic cable GFK...
- Optical units GGFK, A or At, EGFK, Y4/320GFK
- Optical accessories:
- Adjustment flange
- Cooling water flange
- Diaphragms
- Special filters
- Reflektors for reflex optics
- Anti dust tube: TUB75*01, #8541M01 to Y4/...GFK, #8174

Type keys:

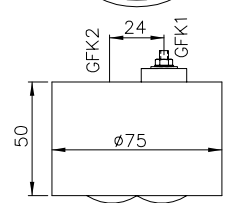
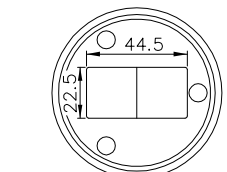
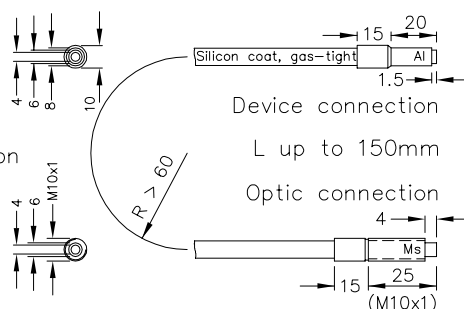
- T: Reflex scanner
- R: Reference process
- l: Internal reference
- 14: Housing R26
- 3: Fibre-optic cable
- 2: Number of FOC
- 1: Type of transmitter and receiver
- 0: No additional controller

Special versions:

Access time	"q": <2ms/switch transition
Switching rate	"q": ~300/s
Transmitting light	GaAs 650nm, visible, rl

Applications:

- Paper break detection on drying screen
- Recognition of printed marks



Fibre-optic cable GFKxySI Optical unit Y4/320GFK Scale 1:3.3