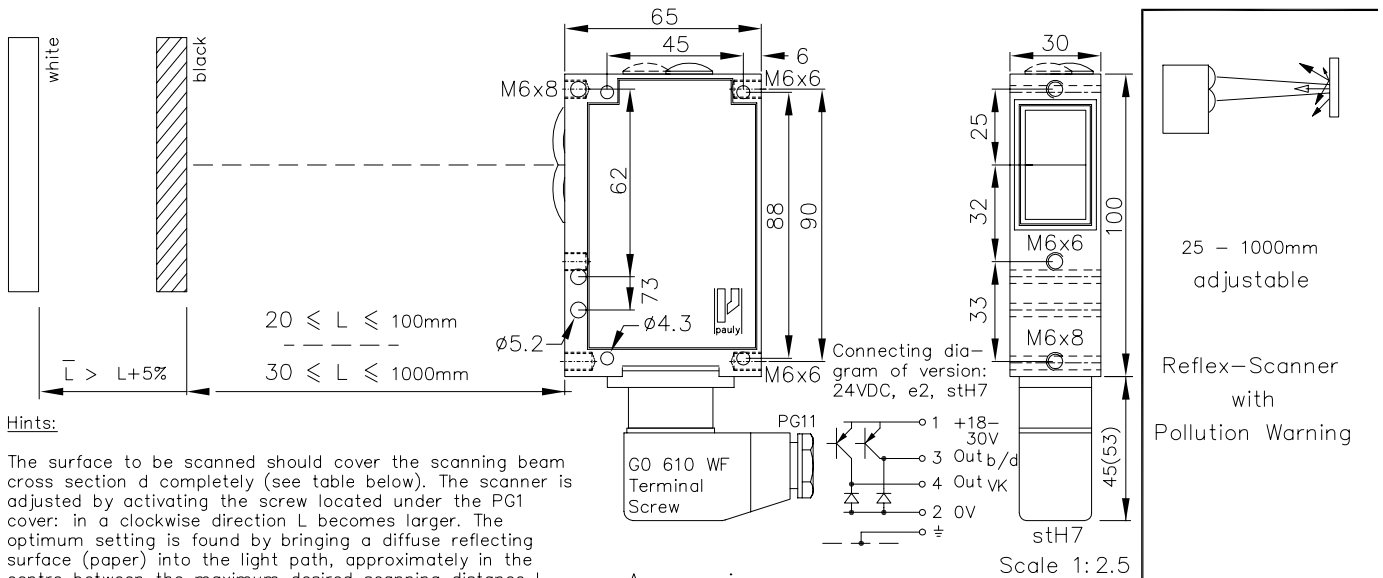


## Adjustable Reflex-Scanner with active Background Response Suppression and Pollution Warning Output Type ET 192/800v



**Hints:**

The surface to be scanned should cover the scanning beam cross section d completely (see table below). The scanner is adjusted by activating the screw located under the PG1 cover: in a clockwise direction L becomes larger. The optimum setting is found by bringing a diffuse reflecting surface (paper) into the light path, approximately in the centre between the maximum desired scanning distance L and the "forbidden" distance  $\bar{L}$  and then adjusting the scanner so that it turns off just at this precise point. The blanking depths  $\bar{L}$  are in general  $< L+5\%$ . Diffuse reflecting surfaces are themselves reliably recognisable under scanning beam incidence angles which sharply deviate from 90°. On reflective surfaces the scanning quality can be considerably impaired. However, reflective surfaces can still be recognised beyond the forbidden distance L; slightly tilting the scanner helps.

The ON (Ti) and OFF delay (Ta) is available on request. The delay times are increased by adjusting in a clockwise direction the potentiometer which is located in the housing. The adjustable time interval lies between 0 and approx. 10 seconds. Other time intervals are available on request: 1 sec., 3 sec and 20 sec..

DIANA (Digital Analoge Anzeige - digital analog indicator) indicates approximately 20-fold to 25-fold levels above the response threshold. It is not necessary for all DIANA LEDs to light up in order for the light barrier to function perfectly! Beyond the switching range (green off), the DIANA may show the level under the switching threshold. The green LED always lights up when sufficient light is received. If no more than the 5-fold light quantity required to trigger the switching procedure is received, the red LED lights up and the corresponding output is actuated.

\*E\_1202 1.TXT\*

**Technical Characteristics:**

Housing	Al-Cast
Weight	approx. 350g
Protection mode	IP65
Connection	6+1 pin Plug stH7
Supply	24VDC/60mA without load
Output	pnp 60mA s.c.-prot., e2
Signal mode	bright-/darkswitching selectable (only AK)
Transmitter light	LED 880, invisible
Steady light resistance	>80kLx
Interference suppress.	forced synchronization
Access time	<12ms/switch transition
Switching frequency	40/s
Switch indicator	LED green, red
Ambient temperatur	-25...+60°C

**Accessories:**

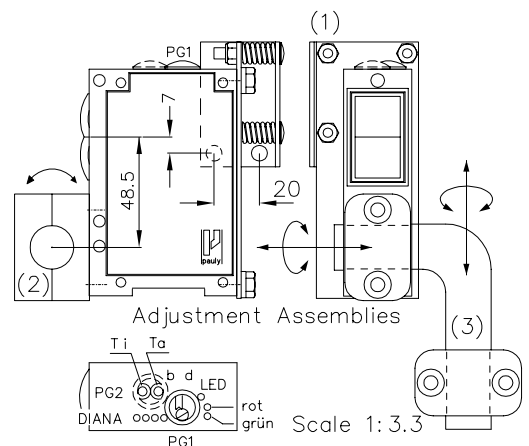
- Cooling water flange KW19
- Adjustment flange JF19H (1)
- Elbow tube adjustment JR19 (2&3)
- Heat shield & anti dust tube (K)JT19
- Diaphragms, Optical filters

**Options:**

- Connection 4 pin plug stLU4  
4+1 pin Plug stA5  
6+1 pin Plug stA7  
4+1 wire no.-cable K5
- Output npn 60mA s.c.-prot., e3  
Optocoupler 60V/50mA, e1
- Access time "q": <2ms/switch transition
- Switching frequency "q": 300/s
- Time delay 0-10s, switching-on-off-delay, separately adjustable, z10 (only AK)
- Level indicator DIANA, i
- If using cooling water flange, then milled wall, y
- Heat-protected optical system, pl

L /mm	$\bar{L}$ /mm	d /mm
20 - 100	101	15
20 - 150	152	23
25 - 200	202	28
25 - 300	303	30
30 - 500	510	35
30 - 800	825	45
30 -1000	1080	60

L: Working range on black  
 $\bar{L}$ : Blanking depth on white  
 d: Light beam dia.  
 (only approx. values)



1268 DE v  
 E\_1268 1 v  
 (15.01.03 9s)  
 18.02.05