PAULY

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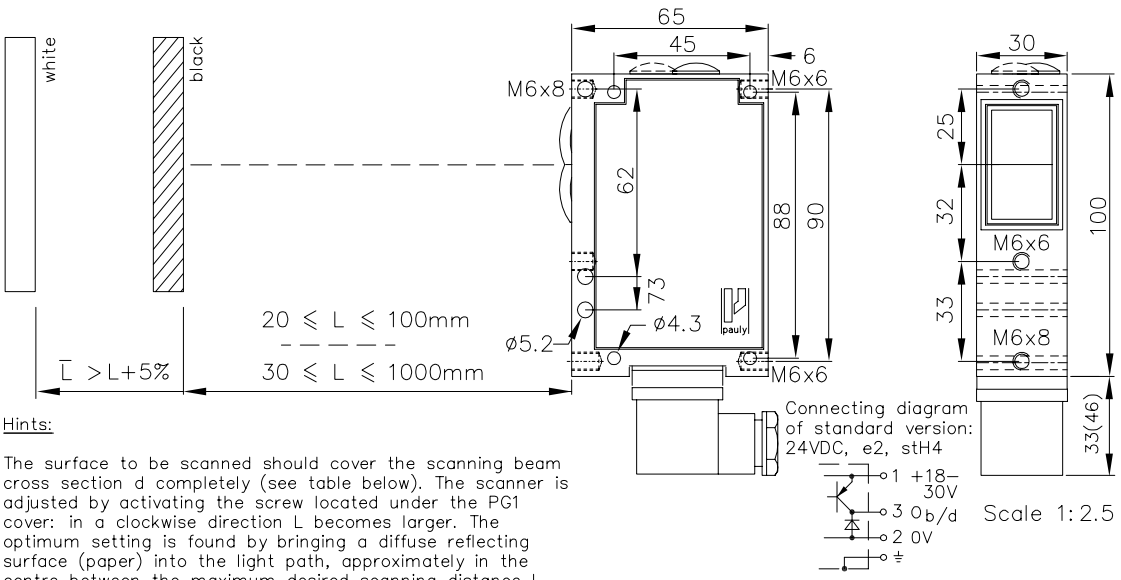
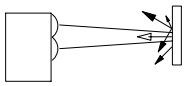
Adjustable Reflex-Scanner with active Background Response Suppression

Type ET 192/800



Connecting diagram of standard version: 24VDC, e2, stH4



25 – 1000mm adjustable

Reflex-Scanner

ET 192/800

Order-no.:

1268

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 L̄ and then adjusting the scanner so that it turns off just at this precise point. The blanking depths L̄ 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 L̄; 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.
E_1202 1.TXT

Technical Characteristics:

Housing	Al-Cast
Weight	approx. 350g
Protection mode	IP65
Connection	3+1 pin Plug stH4
Supply	24VDC/50mA without load
Output	pnp 60mA s.c.-prot., e2
Signal mode	bright-/darkswitching selectable
Transmitter light	LED 880, invisible
Steady light resisttance	>80kLx
Interference suppress.	forced synchronization
Access time	<12ms/switch transition
Switching frequency	40/s, Relay: 10/s
Switch indicator	LED
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, special filters

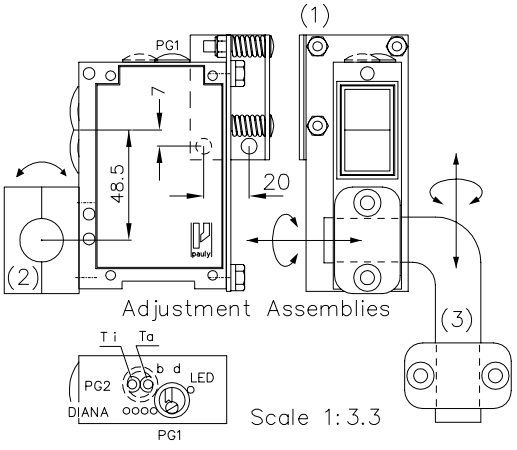
Options:

Connection	4 pin Plug stLU4
	4+1 pin Plug stA5
	6+1 pin Plug stA7
	6+1 pin Plug stH7
	3+1 wire no.-cable K4
	2x3 wire no.-cable 2K3
Supply	230V, 115V, 42...48V
	24V AC
	24...230VUC
Output	npn 60mA s.c.-prot., e3
	Optocoupler 60V/50mA, e1
	Relay 240VAC/5A, 120W/1200VA, 1xCh, R
	also: 2xe2/2xe3 or antival. e4/e5
Access time	"q": <2ms/switch transition
Switching frequency	"q": 300/s, Relay 10/s
Time delay	0-10s, switching-on-off-delay, separately adjustable, z10
Level indicator	DIANA, i

Heat-protected optical system, pl
If using cooling water flange, then milled wall, y

L /mm	L̄ /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
L̄: Blanking depth on white
d: Light beam dia.
(only approx. values)



1268 DE
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(15.04.96 tb)
(15.01.03 gs)
18.02.05 mj

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