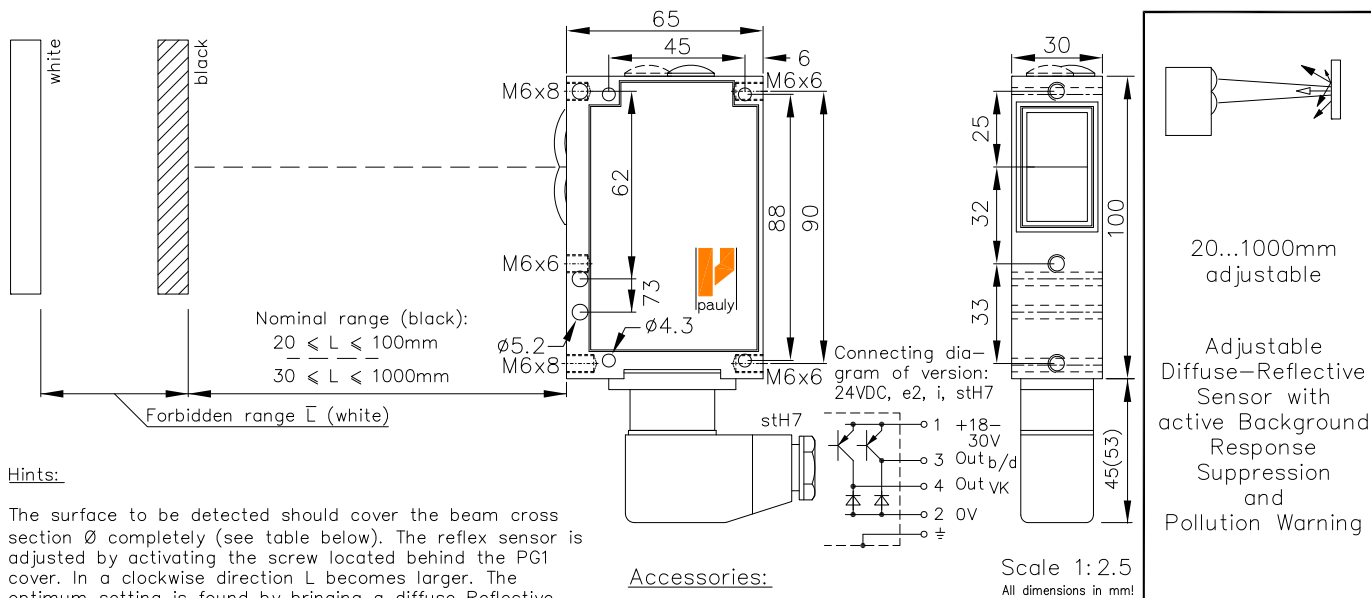


Adjustable Diffuse-Reflective Sensor with active Background Response Suppression and Pollution Warning Output, Type ET192/800v



Hints:

The surface to be detected should cover the beam cross section \varnothing completely (see table below). The reflex sensor is adjusted by activating the screw located behind the PG1 cover. In a clockwise direction L becomes larger. The optimum setting is found by bringing a diffuse Reflective surface (paper) into the light path. Approximately in the center between the maximum desired detection distance L and the "forbidden" distance \bar{L} and then adjusting the reflex sensor so that it turns off just at this precise point. The "forbidden" distance \bar{L} are in general $< L+5\%$. Diffuse Reflective surfaces are themselves reliably recognizable under beam incidence angles which sharply deviate from 90°. On reflective surfaces the detection quality can be considerably impaired. However, reflective surfaces can still be recognized beyond the forbidden distance \bar{L} ; slightly tilting the detection helps. The ON (Ti) and OFF delay (Ta) is available on request. The delay time is increasable by adjusting the potentiometer in a clockwise direction. The potentiometer is located inside the housing. The adjustable time interval lies between 0 and approximately 3 seconds. Other time intervals are available on request: 1 second, 10 second and 20 second. DIANA (Digital ANaloge Anzeige -digital analog indicator) indicates approximately 20-fold levels above the response threshold. It is not necessary that all DIANA LEDs light up in order for a proper function of the reflex sensor! Beyond the switching range (green off), the DIANA may show the level under the switching threshold. The green LED (AK) 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 (VK) lights up and the corresponding output is actuated.

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

Features:

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
"q": <2ms/switch transition
"q": 300/s

Access time 0-10s, switching-on-off-delay, separately adjustable, z10 (only AK)

Switching rate

Time delay

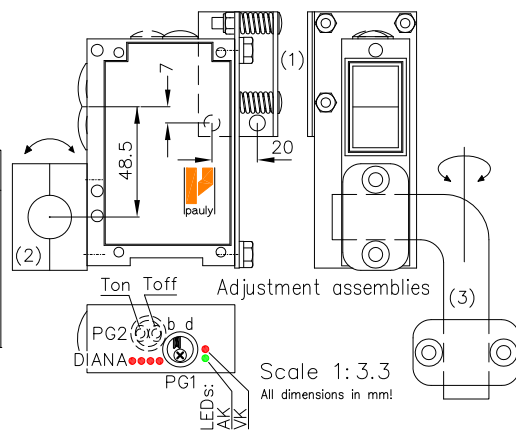
If using cooling water flange, then milled wall, y
Heat protected transductor system, pl

Technical characteristics:

Housing	Al-Cast
Weight	approx. 350g
Protection mode	IP65
Connection	6+1 pin Plug stH7
Supply	24VDC/60mA without load
Output	nnp 60mA s.c.-prot., e2
Signal mode	bright-/darkswitching selectable (only AK)
Transmitter light	GaAs 880nm, invisible
Steady light Resist.	>80kLx
Interference Suppress.	Force synchronization
Access time	<12ms/switch transition
Switching rate	40/s
Switch indicator	LED green (AK); red (VK)
Level indicator	4x LED red (DIANA, i)
Ambient temperatur	-25...+60°C

L/mm	\bar{L} /mm	\varnothing /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
 \varnothing : Light beam dia.
(only approx. values)



1268V DE (08.05.14 -tb)
E-1268 1 v 14.05.14 tb
(15.01.03 gs)
(18.02.05 m)