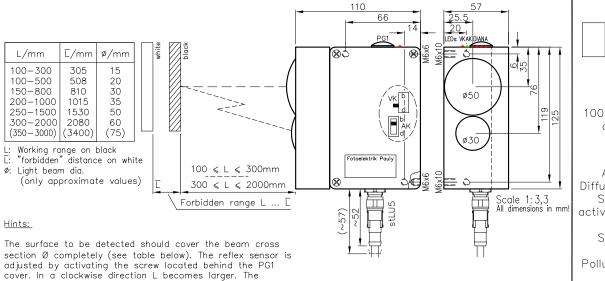


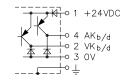
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# Adjustable Diffuse—Reflective Sensor with active Background Response Suppression

### and Pollution Warning Output, Type ET103/2000v



Connecting diagram:



100 ... 2000mm adjustable

Adjustable Diffuse-Reflective Sensor with active Background Response Suppression and Pollution Warning

ET103/2000v

Order no:

1202V

## Features: 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

Connection 6+1 pin plug stBI7 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

Switching rate

Time delay 0-3s, switching-on-off-delay, separately adjustable, z3 (only AK)

Heat protected transductor system, pl

If using cooling water flange, then milled wall, y

Level indicator

Ambient temperatur

Technical characteristics: Al-Cast Housing approx. 1000g Weight IP65 Protection mode 4+1 pin Plug stLU5 Connection 24VDC/60mÅ without load pnp 60mA s.c.-prot., e2 စီလို့ စီ Signal mode bright-/darkswitching, selectable Transmitter light

To Esteady light Resist.

To Esteady light Resist.

To Esteady light Resist.

To Esteady light Resist.

Suppress.

To Esteady light Resist. 850...880nm, invisible >80kLxForce synchronization <12ms/switch transition 40/s

LED green (AK); red (VK)

4x LED red (DIANA, i)

-30...+65°C

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  $\overline{\mathsf{L}}$  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  $\overline{L}$ ; 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

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.

request: 1 second, 10 second and 20 second.

Accessories: Diaphragms

Optical filters Furnace window 02004/100 Cooling water flange KW26 Heavy adjustment flange R26SH Elbow tube adjustment AD26SS1 or AD26SS2

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Switch indicator