

## Adjusting Instructions for Reference Reflex Light Barriers JP19...Ref.

1. The appliance and reflector are installed at the required position.
2. The operating voltage is connected.
3. The appliance is aligned to the reflector, as follows: Look just past the appliance into the reflector, and adjust the appliance so that the red luminous transmitter beam is visible in the reflector.
4. The green switch indicator should now light up.
5. The red level indicator "DIANA" lights up with more or less intensity, depending on the power.
6. The object to be recognised, in the desired operating state, (glass, cellophane foil, components which are smaller than the lense cross-section etc) is brought into the light path. The gang potentiometer, which is located under the "PG3" dummy screw, is turned anticlockwise until the switch indicator has clearly been extinguished. When the object is removed from the light path the switch indicator must light up again.
7. With reflective objects (glass) it must be ensured that under all circumstances the light beam is inclined to the reflective surfaces, in order to guarantee the desired function.
8. If the appliance is positioned at a short distance from the reflector the system power may be so high that proper operation is not possible, particularly if the objects required to be seen absorb only a small amount of light. In this case one or more of the following measures must be taken:
  - a. Use of a less efficient reflector (foil reflector instead of a triple reflector)
  - b. (Symmetrical) dimming of the active lense by means of a slit or apertured diaphragm. Dimming is essential with objects which are very small in relation to the lense. The side of the diaphragm facing the lense must be mat black.

**Please note: If the appliance is adjusted in such a way that it has to react to light damping, it will of course also react sensitively to dust or contamination.**

9. If objects with different degrees of damping are used adjustment must always be carried out with the object having the lowest degree of damping.
10. As a rule functioning is guaranteed even with different distances of the object from the appliance.