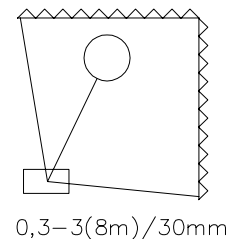
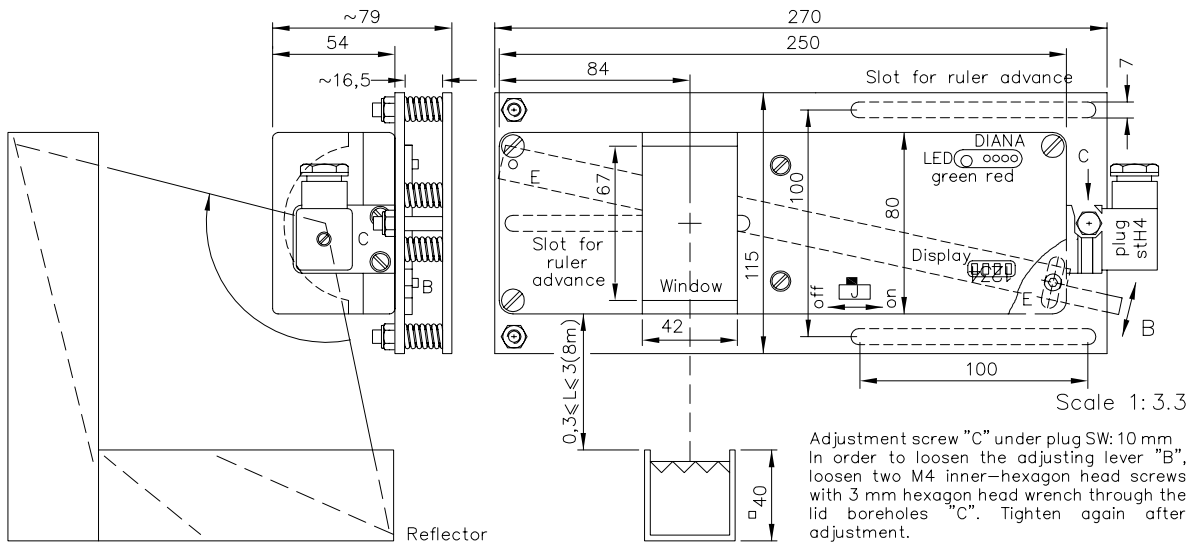


## μC-controlled Profil Scanner Type PK153



μC-controlled Profil Scanner

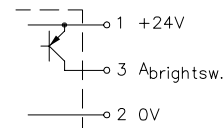
PK 153

Order no.:

4743

### Description of function:

1. A transmitter beams light onto a reflector via a rotating mirror.
2. The reflected beam reaches the recipient via mirror and lens.
3. An object between device and reflector interrupts the light beam and causes a sound signal which can be stored for up to 1s.
4. During a learning phase during commissioning the contact area of the device is restricted to the reflector arch. (Refer to setting instructions).



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

### Technical Characteristics:

|                     |                                    |
|---------------------|------------------------------------|
| Housing             | Al-Cast                            |
| Weight              | 1.2 (3.2kg with adjustment flange) |
| Protection mode     | IP65                               |
| Ambient temperatur  | -20--+60°C                         |
| Connection          | 3+1 pole plug, stH4                |
| Supply              | 24VDC/300mA without lead           |
| Output              | pnp 60mA s-c-prot., e2             |
| Signal mode         | Brightswitching                    |
| Transmitter light   | GaAs 880nm, invisible              |
| Access time         | 35μs                               |
| Switch indicator    | LED, green                         |
| Level indicator     | DIANA, red                         |
| Mirror revolutions  | 7<n<20/s, adjustable               |
| Pulse memory        | 0.1<t<1s, adjustable               |
| Sampling angle      | 5-180°, possible 220°              |
| Resolution          | 30mm/L=3m, n=10/s                  |
| Sampling area       | <8mm                               |
| Light output window | 40mmx180°                          |

### Area of application:

Profile check to detect protruding parts of load; surface monitoring of object cross sections such as presence checks, slack regulations etc.

### Hints:

The reflectors are tailored made to suit the particular application and have been specially manufactured for this purpose. This is necessary in order to limit the beam angle of incidence to a suitable degree and to realise optimum reflector performance.

The following information is necessary:

1. horizontal light path length
  2. vertical light path length
  3. horizontal reflector length
  4. vertical reflector length
- } light path specified under 1./2.

### Adjustment instructions:

1. Using the slot adjustment of the adjustment flange, push window centre into the reflector level.
2. Adjust device using screw C and lever B in such a way that display maximum.
3. Flashing display indicates interruption to the light path; -> remedy other no data transfer; it may be necessary to shield reflector-free scan area.
4. Adjustment period is approx. 45s; light path interruption before expiry of the adjustment period extends by a further 46s.
5. The displays flash one after the other approx. 15s before expiry of the adjustment period.
6. Following data transfer the mirror speed is displayed and the green LED lights up.
7. Interruption of the operating voltage does not lead to loss of data.
8. New setting requires deletion of former data:  
Open device (6 screws) and when operating voltage is applied switch "J" on and off. Display shows "JUMP" for a brief period; the adjustment period runs anew.
9. After data transfer check the function by running the reflector with suitable object; green LED must go off.

### Accessories:

- Reflectors R151(B) or SR151(B)
- Adjustment flange JF28PK\*
- Power unit e.g.: PP83201/2 (#2420)

\*Supplied in standard version

The design and make of the devices and their electronics are intellectual property of the company "Fotoelektrik Pauly GmbH & Co. KG". Internal circuit diagrams can, for copyright reasons, not be given therefore. Subject to technical alterations. Errors excepted. The reprinting of this data sheet or the copying of extracts from it are allowed only with the approval of the "Fotoelektrik Pauly GmbH & Co. KG" and with an indication of the sources used. Infringements are punishable by law.