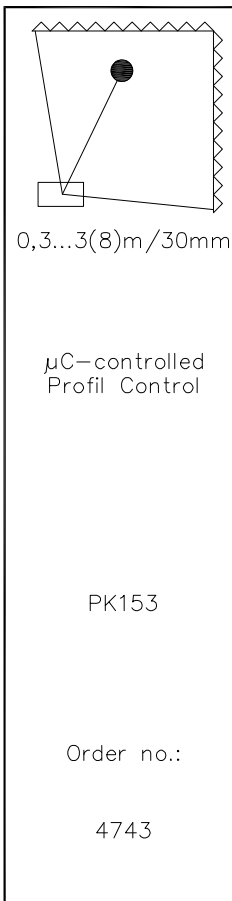
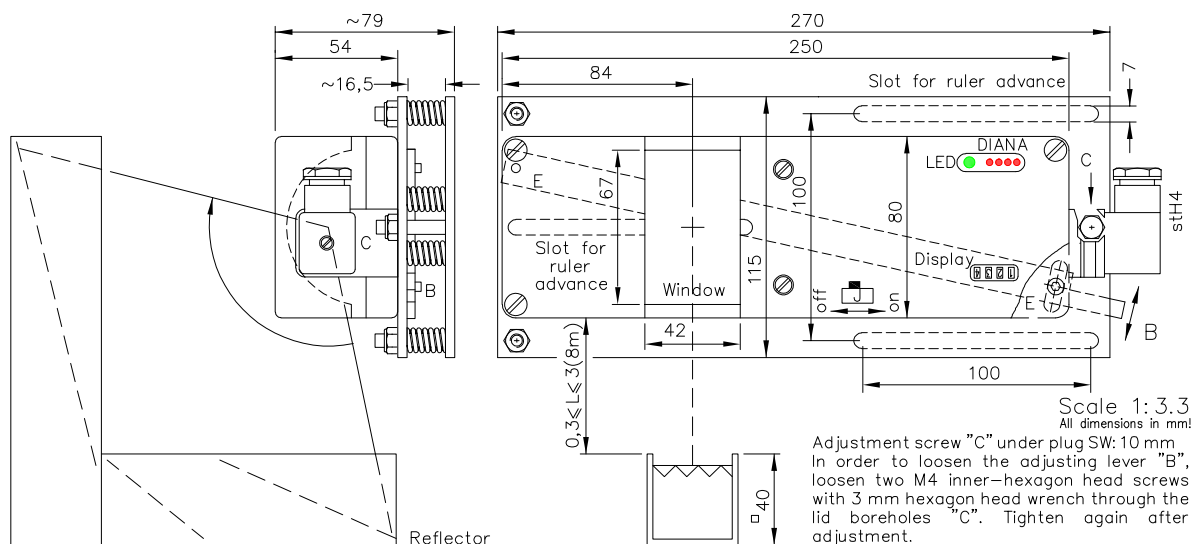
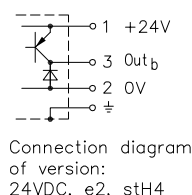


## μC-controlled Profil Control Type PK153



### 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).



### Technical Characteristics:

Housing	Al—Cast
Weight	1.2kg (3.2kg with adjustment flange)
Protection mode	IP65
Ambient temperatur	−20...+60°C
Connection	3+1 pole plug, stH4
Supply	24VDC/300mA without load
Output	pnp 60mA s—c—prot., e2
Signal mode	Brightswitching
Transmitter light	GaAs 850nm, invisible
Access time	35μs
Switch indicator	LED green
Level indicator	4x LED red (DIANA, i)
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
- can be larger or smaller than the 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 detecting 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.