Programmable universal switching device

PCS-T75UR/205-D

Main fields of applications

- Rotational speed monitor
- Analogue signal evaluation
- Level and position evaluation
- Switching point evaluation

Main features

- Programmable Control System (PCS)
- Programming via menu
- Teach-in function
- Universal
- Easy to operate

With state of the art evaluation electronics PCS-T75UR/205D, BERNSTEIN introduces a new **P**rogrammable **C**ontrol **S**ystem into automation technology that offers the user a high degree of flexibility and configuration options.

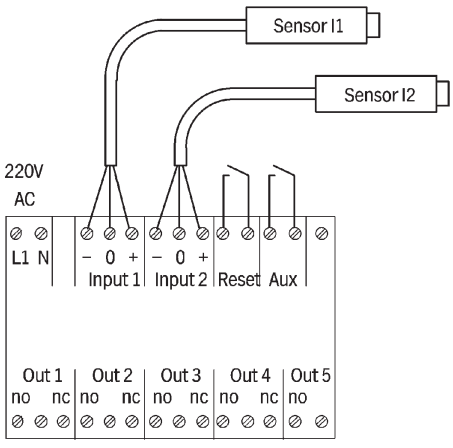
The PCS is controlled via a menu for applications that require rotational speed queries, evaluation of analogue signals, levels or positions, and switching points. The sensor inputs are wired to standard sensors, NAMUR sensors or analogue sensors with current or voltage output from 5/24 V.

In addition to the menu controlled programming function, the PCS can learn predefined switching points or rotational speeds (teach-in function). This enables the user to minimise tolerances when setting or programming applications.

5 potential-free relay contacts are available as outputs. If required, the evaluation electronics can be divided in to 2 functional units, which means the user has two separate configurations available.

This innovative feature ensures a high degree of flexibility when configuring and installing. Despite its comprehensive functions of the PCS, the evaluation electronics can be operated without the need for previous experience.

Wiring diagram



Output Relay:
NO = Normally-Open Contact
NC = Normally-Closed Contact

Technical data		
Electrical data		
Supply voltages	85–265 V AC	
Sensor voltages	8.2 V DC (NAMUR) 24 V DC (standard sensor) 5 V DC	
Relay outputs (divides in to 2 functions)	5 relay outputs – 4x CO – 1x NO – current: 2 A, voltage: 200 V DC, power: 60 W	
Input signals	NAMUR sensors PNP/NPN sensors 0…24 V Analog sensors 0…24 mA, 0…5 V	
Auxiliary inputs	1x reset (start-up delay)	
Hysteresis	programmable 2–20 %	
Protection class	IP 20/NEMA 1	
Mechanical data		
Temperature range	–20 °C…+70 °C (0 °C…+60 °C legible display)	
Enclosure, see-through cover	PC black, PC	
Connection	Rigid 0.2…4 mm² Flexible 0.2…2.5 mm² AWG 24-11	
Mounting	Mounts on to mounting rail according to EN 50022	
Function and programming		
Mode	Programmable Mean-value generation Level or position evaluation	
Programming	Default by entering the values Adaptive programming Visualisation/operator guidance	
Start-up override	Adjustable from 1 to 100 s	
Rotational speed monitoring	Programmable from 2 Hz–10 kHz	

Dimensions