

Your Global Automation Partner

# TURCK

## TBEN-Lx-PLC-10 Compact Controller in IP67



### CODESYS 3 Controller for the Field

The CODESYS 3 controller TBEN-Lx-PLC-10 is a compact IP67 PLC for control of smaller or modular machines. The TBEN-L-PLC works, due to the fully potted housing, the large temperature range and high protection class, directly in the field and thus allows to operate machines and equipment without cabinet. Close-to-machine automation concepts and the use of pre-assembled cables reduce the cabling effort and facilitate commissioning. Decentralized solutions without cabinets are also time and cost-saving.

This flexibility is further supported through the variety of communication interfaces of the TBEN-L-PLC. As a master, the device supports the Industrial Ethernet protocols PROFINET, EtherNet/IP™, Modbus TCP and also Modbus RTU, CANopen and SAE J1939. The serial interfaces RS232 and RS485 can be freely used in CODESYS.

In addition, the IP67 control offers eight digital I/O channels for direct connection of sensors and actuators. In the Ethernet networks PROFINET, EtherNet/IP™ and Modbus TCP as well as in Modbus RTU and CANopen networks, the PLC can operate as a slave (i.e. device) which provides for the use as a protocol converter. The controller can act as a CANopen manager of a CANopen networked machine module and connect this to a system which is networked with PROFINET.

### Your Benefits

- Simple programming with CODESYS 3 acc. to IEC-61131-3
- Extremely robust thanks to fully potted module electronics
- Flexible use through wide temperature range from -40...+70 °C
- High protection class IP65/IP67/IP69K allows installation directly on the machine



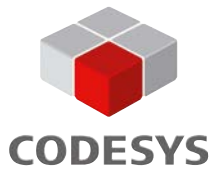
# Types and Features

## Flexible connectivity options

- 2 Ethernet ports allow the installation in line topology
- Two serial interfaces can be selected as RS232 or RS485
- CAN interfaces
- 8 local I/Os for universal use as input or output
- Output current up to 2 A per channel
- Sensor supply can be switched off separately for each channel, up to 2 A per port
- Isolated power groups for safety related shutdown

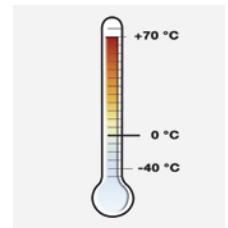
## CODESYS features

- CODESYS 3 PLC Runtime
- Integrated Real Time Clock (RTC)
- Various master and slave protocols (see below) also allow use as a protocol converter
- CODESYS WebVisu (optional)



## Extremely robust

- Fully potted module electronics
- Temperature range -40...+70 °C
- High protection classes IP65/IP67/IP69K



## Supported protocols

	Master	Slave
PROFINET	●	●
EtherNet/IP™	●	●
Modbus TCP	●	●
Modbus RTU	●	●
CANopen®	●	●
SAE J1939	●	

## Device variants

ID number	Type Code	Power connection	CODESYS WebVisu
6814018	TBEN-L5-PLC-10	7/8", 5-pin	
6814019	TBEN-L4-PLC-10	7/8", 4-pin	
100000272	TBEN-L5-PLC-11	7/8", 5-pin	●
100000273	TBEN-L4-PLC-11	7/8", 4-pin	●

