

IP67 PLC with Direct Cloud Connection and Multiprotocol Ethernet

Thanks to its integrated edge gateway, the robust TBEN-L PLC with protection to IP67 can be connected directly to Turck's Cloud platform for straightforward machine control and maintenance

Mülheim, August 4, 2020 – Turck is proud to now present the TBEN-L PLC as the world's first IP67 controller for industrial applications, which not only offers an onboard CODESYS PLC but also enables a cloud connection and communication with different Ethernet protocols at the same time, thanks to its multiprotocol technology. The new Dual MAC mode enables the robust module to establish a connection to the automation network via one port and a securely separated internet connection to the cloud via the second port. Alternatively, if an internet connection to the cloud is not required, communication in two Ethernet networks is possible, for example as a Profinet device and as Profinet, Ethernet/IP or Modbus TCP master.

The ability of the IP67 controller to connect at the machine directly to Turck's Cloud Solutions not only eliminates the need for additional edge gateways but also considerably simplifies project design for the user. This makes it possible to implement decentralized and network concepts with a minimum of installation effort and expenditure. Compared to applications with a separate edge gateway, the programming of this kind of solution with an integrated cloud connection saves considerable resources since no interfaces for data exchange are required.

Simple access to machine data in the cloud from any PC or mobile device worldwide simplifies fault diagnostics and maintenance as well as condition monitoring for preventative maintenance. The cloud interface supplies a clear presentation of the states of sensors and other machine data in a browser application. These dashboards can be created by the user without any programming knowledge. Limit values such as temperature, pressure or vibration can be set easily and actions for limit violations defined. If necessary, the Turck Cloud can send an SMS or email directly.

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Unlimited networking: The TBEN-L PLC with a cloud connection now handles the tasks of an edge gateway at the same time

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