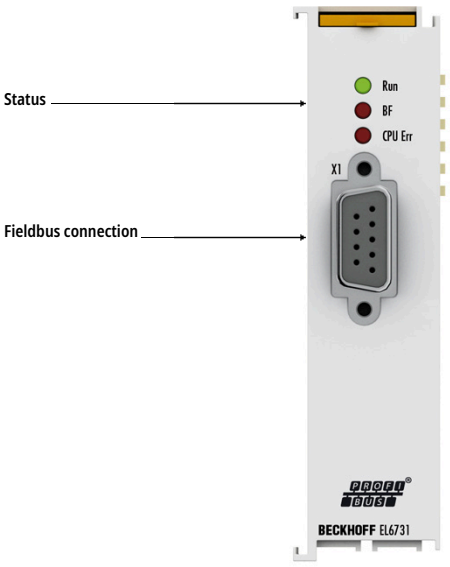
EL6731 | EtherCAT Terminal, 1-channel communication interface, PROFIBUS, master/slave

Image similar, may contain optional accessories



EL6731 | EtherCAT Terminal, 1-channel communication interface, PROFIBUS, master/slave

Product status: regular delivery

The PROFIBUS master terminal EL6731 supports the PROFIBUS protocol with all its features. Within an EtherCAT Terminal network, it enables the integration of any PROFIBUS devices. Thanks to the PROFIBUS chip developed in-house, the terminal is equipped with the latest version of the PROFIBUS technology – including high-precision isochronous mode for axis control and expanded diagnostic options. The EL6731 supports different poll rates for the PROFIBUS slaves.

- Cycle times from 200 µs are possible.
- PROFIBUS DP, PROFIBUS DP-V1, PROFIBUS DP-V2
- master or slave up to 12 Mbit/s
- powerful parameter and diagnostics interfaces
- The error management for each bus user is freely configurable.
- It is possible to read the bus configuration and automatically assign the “GSD” files.

Like the FC3101 PROFIBUS PCI™ card, the EL6731 can be used for connection to PROFIBUS networks. The terminal, however, enables a more space-saving implementation since no PCI™ slots are required in the Industrial PC.

Product information

Technical data

Technical data	EL6731
Technology	PROFIBUS master/slave terminal
Number of channels	1
Cycle time	differing DP cycle times per slave are possible using the CDL concept
Number of devices	max. 125 slaves with up to 244 bytes input, output, parameter, configuration or diagnostic data per slave
Fieldbus	PROFIBUS DP (standard), PROFIBUS DP-V1 (Cl. 1+2: acyclic services, alarms), DP-V2, PROFIBUS MC (equidistant)
Transmission rate	9.6 kbaud...12 Mbaud
Interfaces	1 x D-sub socket, 9-pin, galvanically decoupled
Hardware diagnostics	status LEDs
Distributed clocks	yes
Bit width in the process image	total max.: 1.4 kbyte input and 1.4 kbyte output data
Current consumption power contacts	–
Current consumption E-bus	typ. 200 mA
Weight	approx. 70 g
Operating temperature	-25...+60°C
Storage temperature	-40...+85°C
Relative humidity	95%, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. rating/installation pos.	IP20/variable
Approvals/markings	CE, CCC, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-24
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock

Housing data	EL-24
Side by side mounting by means of	double slot and key connection
Marking	–
Wiring	specific push-in connection
Dimensions (W x H x D)	24 mm x 100 mm x 52 mm

Material Compliance

Material compliance	EL6731
CAS No.	7439-92-1
REACH SVHC	Lead
REACH Annex XVII	compliant
REACH Annex XIV	compliant
SCIP No.	SCIP submission in progress
POP	compliant
RoHS	compliant with exemption
RoHS exemption	6c: Copper alloy with a mass fraction of up to 4% lead, 7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
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