EtherCAT I/O system: flexible display terminal with operating hours counter

The EL6090 EtherCAT display terminal from Beckhoff features an illuminated, anti-glare LC display and a non-resettable operating hours counter. For the first time it offers a display option, e.g. for status messages or diagnostic information, that can be directly integrated into the EtherCAT I/O system without additional installation or interfacing efforts. Furthermore, the display can optionally be positioned separate from a controller anywhere on the DIN rail, as required by the application.

The EL6090 display terminal can simply be attached to the DIN rail in the terminal node to offer a display element in the control cabinet that can be easily controlled via EtherCAT in the familiar way. Additional display interfaces such as RS232 and mounting elements such as frames or brackets are no longer required, significantly reducing installation time and costs. In addition, it is possible to position a parameterization and diagnostic display at the ideal location in the control cabinet according to application-specific requirements.

The parameters that can be shown on the two-line display with 16 characters each include status and diagnostic data. The anti-glare display features switchable illumination. It can be used from within the application program to visualize application-specific static and dynamic texts, such as production counters, for example. A non-resettable operating hours counter is integrated in the EL6090 display terminal for recording the system operating time. The value, which is guaranteed to be stored safely for more than 20 years, can be displayed or read via the controller.

Two special features make the display highly versatile: via a 5 x 8 pixel matrix two special characters, such as "μ" or "Ω", can be defined by the user. If the 16-character text limit per line is exceeded, the display terminal automatically switches to scrolling text mode. The navigation button with the functions "up", "down", "left", "right" and "Enter" offers a high level of operator comfort. The status of these five buttons is transferred to the controller as a binary variable and can thus control the display. In this way, it is possible to navigate through a user-created menu or change production counters and parameters.

Further Information:
www.beckhoff.com/EL6090