Load monitoring electronics Incl. application software Model ESC24

WIKA data sheet AC 50.07

Applications

- Harbour cranes (RTG, STS, RMG)
- Ship and offshore cranes
- Overhead cranes, bridge cranes, gantry cranes and hoists
- Conveyor system
- Machine building and plant construction, manufacturing automation

Special features

- 24 input/output channels (of which 8 are analogue inputs, 2 CAN bus interfaces)
- Complex functionality, easy to configure via PC
- Including application and AMP plug connection
- High EMC and shock/vibration resistance
- Robust metal case, ingress protection IP67



Load monitoring electronics, model ESC24

Description

The model ESC24 load monitoring electronics is a multi-functional, configurable safety switching device including software. The electronics feature a wide range of digital and analogue inputs and also solid-state outputs. Two CAN interfaces are also available. In combination with gateways, other fieldbuses can be implemented.

Through its wide range of inputs and outputs, the ESC24 can be used flexibly. It is especially suited for complex applications where monitoring or processing several signals is needed.

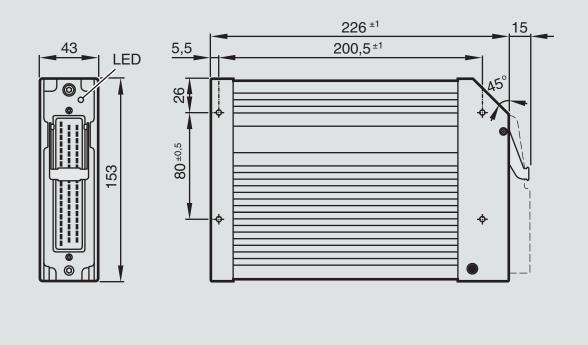
The parametrisation of the switching thresholds and the outputs is made via the PC software included in delivery. With the help of the parametrisation software, the model ESC24 load monitoring electronics can be adjusted to the respective customer application.



Specifications

| Model ESC24 | 4 20 mA version | DC 0 10 V version |
|---|---|-------------------|
| Analog input | | |
| Input resistance | approx. 400 Ω | > 30 kΩ |
| Accuracy | ±1 % of FS | |
| Input frequency | 50 Hz | |
| Digital input | | |
| Switch-on level | 0.7 x UB | |
| Switch-off level | 0.4 x UB | |
| Input resistance | approx. 3 kΩ | |
| Input frequency: | 50 Hz | |
| Rated temperature range | -40 +75 °C (depending on load) | |
| Storage temperature range | -40 +85 °C | |
| Status display | Operating states via a tri-colour LED (RGB) | |
| Solid-state output | | |
| Switching voltage | UB | |
| Switching current | ≤4 A | |
| Output frequency | \leq 100 Hz (depending on load) | |
| Supply voltage (UB) | DC 10 32 V | |
| Overvoltage | DC 36 V for t \leq 10 s | |
| Power consumption | \leq 160 mA (without external load at DC 24 V) | |
| Case material | closed, shielded metal case fastened with a flange | |
| Ingress protection | IP67 | |
| Electromagnetic compatibility | | |
| Interference emission | EN 61000-6-4: 2007 | |
| Immunity against electromagnetic fields | EN 61000-6-2: 2005 | |
| Immunity against line-conducted interferences | ISO 7637-2: 2004 Pulses 1, 2b, severity grade 4, functional state C Pulses 2a, 3a, 3b, 4, severity grade 4, functional state A Pulses 5a, severity grade 3, functional state A | |
| Weight | approx. 1.2 kg | |

Dimensions in mm



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