

Kuhnke FIO Safety

Control Technology

Kuhnke FIO Safety SDI4/SDO2

Safety I/O terminal

Kuhnke FIO Safety SDI4/SDO2 is a safety I/O terminal featuring four safe digital input channels and two safe digital output channels. This module from Kuhnke FIO range can easily be integrated in any EtherCAT® network. Four inputs pick up sensor readings via floating 24 V DC contacts while two outputs send up to 2 A of current per channel to 24 V DC actuators. In case the EtherCAT terminal detects a fault, it changes to a safe state (fail safe). The module meets the requirements of IEC 61508 SIL3 and DIN EN ISO 13849 PLe.

Supported safety functions

- 4 x emergency stop, or
- 4 x contact sensor, or
- 2 x light grid, or
- 1 x two-handed operation
- and 2 autonomous output functions





Kuhnke FIO Safety IO SDI4/SDO2
FSoE
IEC 61508 SIL3 and DIN EN ISO 13849-1 PLe
4 safe inputs (configurable properties)
2 safe outputs (I _{max} = 2.0 A)
4
< 1 ms (read input, write to E-bus)
≤ watchdog time (configurable)
via CoE
275 mA
24 V DC (-15% / +20%)
EN 61000-6-2/ EN 61000-6-4
EN 60068-2-6
EN 60068-2-27
EtherCAT® 100 Mbps LVDS: E-bus
35 mm DIN rail / horizontal
LEDs allocated to the point of termination, status LEDs (EtherCAT, Safety, Power)
Provided directly by the module
18-pin spring-assisted connector with mechanical ejector
0 °C+55 °C, IP 20
Plastic shroud over aluminium frame, 25 x 120 x 90 mm
CE, cULus, TÜV Rheinland

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