Features

- 1-channel isolated barrier
- 115/230 V AC supply
- · Input for dry contacts or SN/S1N sensors
- · Relay contact output
- · Error message output
- · For usage in accordance with ISO 13849-1
- Line fault detection (LFD)
- Up to SIL3 acc. to IEC 61508

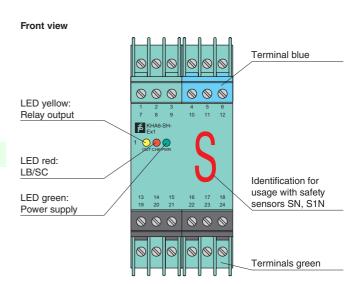
Function

This isolated barrier is used for intrinsic safety applications. It transfers digital signals (SN/S1N proximity sensors and approved mechanical contacts) from a hazardous area to a safe area. It has additional protective circuitry to maintain a reliable safety function.

The proximity sensor or switch controls 1 safety output with 3 form A normally open relay contacts (one is in series to the 2 output relay contacts for the safety function), 1 standard output with 1 form A normally open relay contact, and 1 error message output with a passive transistor. Lead breakage (LB) and short circuit (SC) conditions are continuously monitored.

During an error condition, fault output energizes and outputs I and II de-energize.

For safety applications, terminals 13 and 14 (output I) must be used.





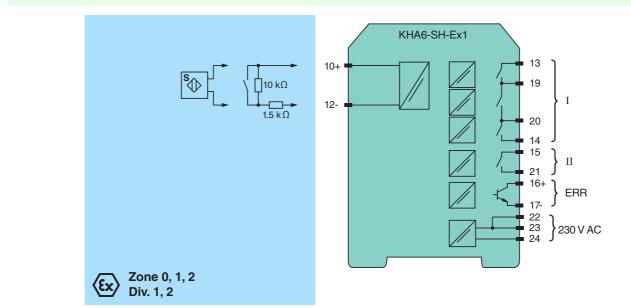
Assembly

SIL3

Connection

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Technical data

tances and inductivities are to be taken into account
ninals 15, 21 ; output III: terminals 16+, 17-
resistive load
nic output, passive
t proof) / 0-signal: blocked output
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ousing type E
6
ficates see www.pepperl-fuchs.com
one 0/1/2]
age can be lower.)
resistive load
on! U _m is no rated voltage.)
), voltage peak value 375 V
), voltage peak value 375 V

Subject to reasonable modifications due to technical advances. Pepperl+Fuchs Group • Tel.: Germany +49-621-776-0 • USA +1-330-4253555 • Singapore +65-67-799091 • Internet www.pepperl-fuchs.com Supplementary information

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperlfuchs.com.

Function

Unlike an SN/S1N series NAMUR proximity sensor, a mechanical contact, requires a 10 kΩ resistor to be placed across the contact in addition to a 1.5 k Ω resistor in series.

The input (terminals 10, 12) may generally be operated only with potentially free (passive) switches.

Single channel safe operations must occur via terminals 13 and 14. The center tap of the contacts (terminals 19, 20) can also be used if an safe operation is to occur a redundant branch.

If the device is used for safety operations the information in the test documents should be observed. The output III error message delivers a "1"-signal when the control circuit experiences lead breakage (LB) or a short circuit (LK).

The device (housing type E) has integrated terminals.

Maximal switching power of the output

