WIS module primary



CE

Model Number

NDP-KE2-8E2-FP

Inductive transmitter system

Features

- 8 channels ٠
- 9 outputs •
- LEDs for display of the output . states and communication
- **Deactivation option**
- Housing with removable terminals •
- **DIN rail mounting** •
- For connection of 1 transmitter • head
- Can only be used in conjunction with NDP20-FP series WIS . transmitter

| Technical data |
|--------------------------------------|
| Nominal ratings |
| Operating voltage U _B |
| Number of signal channels |
| Signal transfer direction |
| Reverse polarity protection |
| Current consumption |
| Functional safety related parameters |
| MTTF _d |
| Mission Time (T _M) |
| Diagnostic Coverage (DC) |
| Indicators/operating means |
| Switching state |
| Transfer indicator Tx |
| Input |
| Number |
| Input type |
| Input current |
| Internal resistor |
| Output |
| Output type |
| Voltage drop U _d |
| Load current |
| Response time |
| Ambient conditions |
| Ambient temperature |
| Storage temperature |
| Mechanical specifications |
| Degree of protection |
| Material |
| Housing |
| Installation |
| Mass |
| |

- General information Note
- Compliance with standards and directives
- Directive conformity EMC Directive 89/336/EEC
- Standard conformity
- Standards
- Approvals and certificates CCC approval

24 V DC ± 10 % 8 from secondary side to primary side reverse polarity protected max. 1000 mA 245 a 20 a 0% 8 x LED, yellow LED, green Activation input signal level: \geq 15 V = active, \leq 3 V inactive ≤1 mA \geq 15 k Ω 1 Status output (high with proper transfer) and 8 Switch outputs PNP, NO. (switched high) , overload and short-circuit resistant \leq 2.5 V max. 50 mA \leq 200 ms (static operation , the transmission heads stand opposite to each other) 0 ... 50 °C (32 ... 122 °F)

-25 ... 85 °C (-13 ... 185 °F)

IP20

PA 66-FR DIN rail mounting 106 g

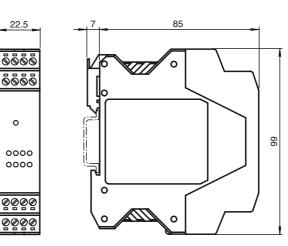
Maximum cable length between WIS module and WIS transmitter must not exceed 5 m.

EN 61000-6-2:2001, EN 61000-6-4:2001, EN 50295:1999

EN 60947-5-2:2007 IEC 60947-5-2:2007

CCC approval / marking not required for products rated \leq 36 V

Dimensions



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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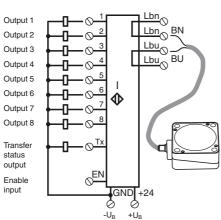
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EPPERL+FUCHS

NDP-KE2-8E2-FP

Electrical Connection

Connection:



Functional description

A WIS (wireless inductive system) inductive transfer system always consists of the following four components:

- WIS primary module
- WIS primary transmitter
- WIS secondary transmitter
- WIS secondary module

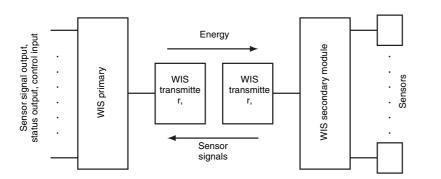
The WIS primary module is installed in the stationary component and is connected to a downstream control (i.e., PLC). The WIS primary transmitter connected to the WIS primary module. The WIS secondary transmitter and the WIS secondary module that is connected to it are installed in the moveable part of the component. The WIS secondary module disposes of connection capabilities for several sensors. If the two transmitters are located in front of each other within the system range, then electric power is transferred from the primary side to the secondary side. The sensors attached to the WIS secondary module are now supplied with electric energy and begin to operate. The sensor output signals are transmitted in the opposite direction from the secondary side to the primary side and are separately available on the WIS promary module output terminals for further processing by the equipment control. The sensor signal status is also displayed by LEDs that correspond to the sensor channels.

A separate output signal Tx on the WIS primary module indicates the communication status. A high signal indicates communication between the WIS transmitters. This is also indicated by a glowing LED Tx.

Power transfer and communication in the system can be activated and deactivated on the WIS primary module with the EN input .

| Input signal on EN | Function |
|--------------------|----------------------|
| + UB (24 V DC) | Transfer activated |
| GND or open. | Transfer deactivated |

Function schematic



The sum of the currents of all sensors attached to the WIS secondary module must not be greater than the maximum transferable current. This is calculated by dividing the transferable power by the 12 V provided by the transmitters.

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