WIS module primary



CE

Model Number

NDP-KE2-8E2

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 NDP5-30GM 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

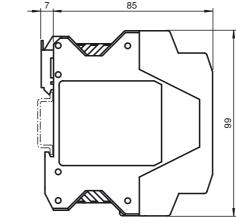
- Directive conformity
- EMC Directive 89/336/EEC Approvals and certificates CCC approval

Maximum cable length between WIS module and WIS

Dimensions

22.5 | bn | bu | 0000 0000 TX EN GND+ 0 0000 0000 ଵୄଵଵ <u>ଡ</u>ୁଡୁଡୁଡୁ

transmitter must not exceed 5 m. EN 61000-6-2:2001, EN 61000-6-4:2001, EN 50295:1999 CCC approval / marking not required for products rated ≤36 V 85



24 V DC ± 10 %

8 x LED, yellow LED, green

Activation input

≤1 mA ≥ 15 kΩ

resistant

 \leq 2.5 V max. 50 mA

IP20

106 g

PA 66-FR

DIN rail mounting

opposite to each other)

0 ... 50 °C (32 ... 122 °F)

-25 ... 85 °C (-13 ... 185 °F)

from secondary side to primary side reverse polarity protected max. 1000 mA

signal level: \geq 15 V = active, \leq 3 V inactive

1 Status output (high with proper transfer) and 8 Switch outputs PNP, NO. (switched high) , overload and short-circuit

 \leq 200 ms (static operation , the transmission heads stand

8

245 a 20 a 0 %

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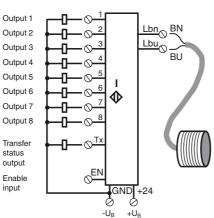
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NDP-KE2-8E2

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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

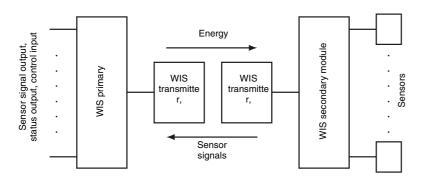
The WIS primary module is installed in the stationary component and is connected to a downstream control (i.e., PLC). The WIS primary transmitter connected to the WIS primary module. The WIS secondary transmitter and the WIS secondary module that is connected to it are installed in the moveable part 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.