Auxilliary Devices for Inductive Proximity Switches



Universal Auxilliary Device ZSN

The universal ZSN 1/dc - 1.60 auxilliary device for proximity switches is used for providing electrical isolation and for increasing the switching power. It can be used universally as a

- three-pole switch with either NO or NC behaviour and either plus- or minus-switching,
- two-pole switch with either NO or NC behaviour.
- switch conforming to NAMUR specifications and operating conditions according to DIN 19 234 or EN 50014/020.

The switching function of the relay outputs is reversible by inserting a jumper.

NAMUR switches are connected to input terminals E2 - M. In order to improve reliability, this input is provided with an extra line break monitor. Whenever a break is detected, the output relay K drops out.

Technical data

Device conception

- Input E1
- Input resistance
- Input frequency
- Minimum damping time of PS

Voltage level without switch

Input E2

- Input resistance
- Input frequency -
- Minimum damping time of PS
- Voltage level without switch
- Line break detection

Output

- Relay output Switching voltage
- Switching current
- Switching power with AC
- Switching power with DC
- Switching frequency -
- Mechanical lifespan
- AC voltage supply
 - Tolerance
 - Frequency
- DC voltage supply Tolerance

Residual ripple Power consumption Permitted position for operation

Connection Protection rating acc. to DIN EN 60 529

Shock resistance with half sine wave acc. to IEC 68 Permitted ambient temperature - for operation

for storage

Mounting

Housing size

Weight

Ordering data

ZSN 1 / dc - 1.60 - (Vs) with indication of the voltage supply.

max. 1 Hz 25 ms + 12 V DC, relay dropped out for NAMUR switch approx. 1 kΩ max. 1 Hz 25 ms + 8.2 V DC, relay dropped out I ≤ 0.2 mA 1 reversal switch 24 ... 250 V AC or DC 0.05 ... 6 A max. 1.250 VA max. 50 W max. 5.000 / h 30.000.000 switching cycles 230/115 or 42 or 24 V AC, ± 10 % 50 ... 60 Hz or 24 V DC ± 15 % ≤ 10 % approx. 3 VA any min. 0.5 mm Ø solid or stranded max. 2 x 2.5 mm Ø solid or 2 x 1.5 mm Ø stranded

conform with VDE 0435 for three and two-pole switches

approx. 4.7 kΩ

0 ... + 55 °C - 40 ... + 85 °C snap mounting on standard rail conform with DIN 46 277 / EN 50 022 .60, see dimension diagram

approx. 300 g

IP 40, clamps IP 20

15 / 11 g / ms

Ref. no. 20.02-69



pulled-in

dropped out

pulled-in

dropped out

pulled-in

dropped out

Dimension diagram all dimensions in mm

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NC

NC

NO

р

E2, M

F2. M

two-pole

NAMUR

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