Purpose

When used with an AFO Proximity Sensor, these ZFN devices are working like three-pole inductive proximity switches for DC for a temperature range between 0 and +200 °C.

Application

As Proximity Switch when the Sensor is used in cramped spaces or harsh environments.

Function

The connected AFO forms the inductive part of the oscillator circuit located on the input side of the ZFN. The switching elements connected to the oscillator correspond to a standard sensor with DC 3-pole, the output of which is the make-contact (NO) when the sensor is damped. A potentiometer allows to set the switching distance which depends on the AFO being used.

Indicator

1 or 2 red LED: output active.

Versions

There are two different versions: the ZFN1 housing consists of a single unit and the ZFN2 housing consists of two units. The L+ and L- connections of the double-unit version are galvanically connected with each other. This makes it very easy to connect the devices in series.

Technical Data

Input	for AFO Proximity Sensor
- operating frequency	depends on AFO type
- damping duration	depends on AFO type
Output	transistor, plus-switching
- operating voltage	10 … 30 VDC
- load current	≤ 400 mA, short circuit proof
- no-load current	≤ 30 mA
- residual voltage	≤ 2.5 VDC
Housing	
- material	polyamide, green
- mounting	snap-in
- protection rating	IP 20
- clamps	screw connectors, max 2.5 mm^2
Weight	
- single-unit device	approx. 70 g
- double-unit device	approx. 100 g
Ambient temperature range	0 … +80 °C

Order Data

ZFN1/a10ca-1.3-24 VDC	Ref.no. 20.08-31
ZFN2/a10ca-1.3-24 VDC	Ref.no. 20.09-23

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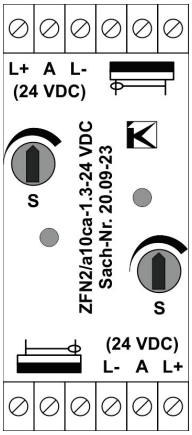
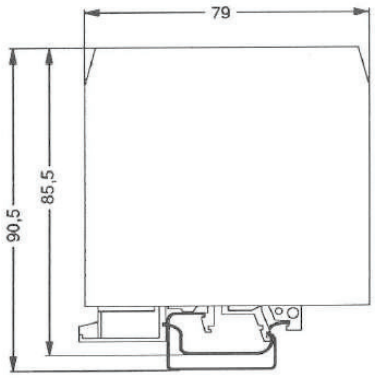
Connection

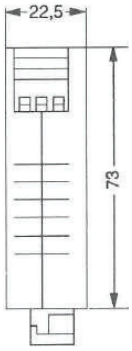
ZFN1: 1 Proximity Sensor



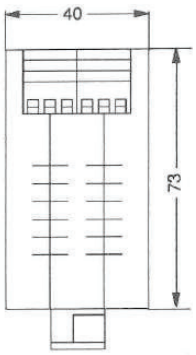
ZFN2: 2 Proximity Sensors

Dimensions of the housing





single-unit device



double-unit device

We are certified according to DIN EN ISO 9001

Subject to technical changes!