

11. Certificate of acceptance.

The sensor complies with the technical specifications of VTIU. 3428.006-2006 TU and is recognized as fit for use.

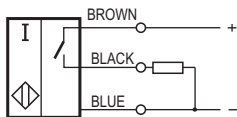
Note:

The manufacturer reserves the right to make minor design changes that do not affect the performance.

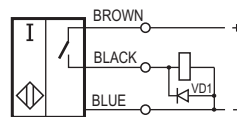
Production date _____

Representative of OTC _____ Stamp here

Active load
connection diagram



Inductive load
connection diagram

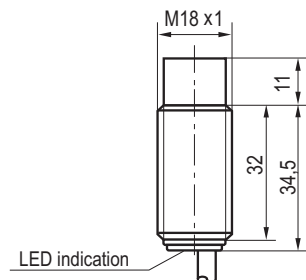


Parameters of the VD1 diode:
 $I_{pr} \geq 1A$; $U_{pr} \geq 400V$
(e.g. diode 1 N4007)

Switch
inductive non-contact
ISN F4A-31P-8-L

Data sheet
Operation manual

Dimensional drawing



1. Designation.

Inductive proximity switch (sensor) is designed for non-contact switching of actuators in industrial automated devices, lines, machines and systems.

2. Operating principle.

When approaching the sensitive surface of the sensor of the object of influence from any metal, the electromagnetic field is damped and the oscillation amplitude decreases, a threshold device (trigger) is triggered, and the electronic key of the sensor is switched, which makes switching of electrical circuits.

3. Specifications.

Format, mm	M 18x1x45.5
Installation method in metal	Non-embedded
Rated switching distance	8 mm
Secured operating distance	0 ... 6.4 mm
Supply voltage, U _{op} .	10 ... 30 V DC
Working current, I _{op} .	≤250 mA
Voltage drop at I _{op} .	≤1,5V
Switching frequency, F _{max}	300 Hz
Operating temperature range	-25°C...+75°C
Comprehensive protection	No
Light indication	Available
Body material	D16T
Attachment	Cable 3x0.34mm ²
Degree of protection in accordance with GOST 14254-2015	IP67
Power ripple factor	≤15%

4. Additional information.

Tightening torque of nuts, max 40 N•m

5. Content of precious metals, mg.

Gold	-
Silver	-
Palladium	-

6. Scope of delivery:

Sensor	-1 pcs.
Nut M 18x1	-2 pcs.
Data sheet (for every 20 sensors in a shipping container)	-1 pc.

7. Safety instructions

- Make all connections to the sensor with the power supply turned off.
- According to the method of protection against electric shock, the sensors correspond to class I according to GOST IEC 61140-2012.
- The sensors are designed to operate in an explosion-proof environment that does not contain aggressive gases and vapors in concentrations that lead to metal corrosion.

8. Installation and operating instructions..

- Mount the sensor at the site, taking into account the permissible nut tightening torques.
- Working position - any.
- Check the marking of the sensor leads and connect in strict accordance with the wiring diagram. Overloads and short circuits in the load are prohibited.
- Operation mode PV100.
- Direct contact with a sensitive surface of cutting fluids and oils is allowed.
- To eliminate the mutual influence of the sensors, the distance between them should be at least two outer diameters of the sensor.

9. Storage and transportation rules.

9.1. Storage conditions in warehouses:

-Temperature	+ 5 °C ... + 35 °C
-Humidity, max	85%.

9.2. Условия транспортирования:

-Temperature	-50 ... + 50 °C.
-Humidity	up to 98% (at + 35 °C).
-Atmospheric pressure	84.0 ... 106.7 kPa.

10. Warranty.

The warranty period is 24 months from the date of commissioning, but max 36 months from the date of shipment to the consumer, subject to compliance with the rules of transportation, storage, installation, operation.

Products are accepted for consideration under warranty if there is a Reclamation Act, label and (or) passport.