

INDUCTIVE

PROXIMITY SENSORS

FOR SPEED CONTROL

"AC"



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fig.1

The presented inductive sensor serve to monitor the minimum turnovers of conveyor belts, elevators, lifts, shafts and other rotating parts. It is used in alternating current electrical circuits.

After applying the supply voltage the output of the sensor remain included for 7 seconds - the necessary time for acceleration of the slow-moving mechanisms. If turnovers of the rotating mechanism exceed the given ones, the output of the sensor remain on. But if turnovers the rotating mechanism are lesser than the given, the output of the sensor turn off. The minimum turnovers are set by trimmer potentiometer located at the back of sensor. It has two LED's: a red one - indicating the output signal of the sensor and green one - indicating the length of the incoming pulses.

Note: Sensor marked at the end with the letter "Z": after turning off the output, restore its operation by turning off and on the supply voltage (option on request).

Technical parameters

Range of regulation, N Maximum permissible revolutions, Nmax Switching distance, Sn Hysteresis. h Supply voltage, Us

Residual voltage, Ures Load current (max), lout Current consumption, Is Output element Operating temperature range, Tamb Degree of protection of the sensors Light output indicator Connection cable Overall dimensions Housing - metallic

Features:

There is no protection against short circuit at the output. Note: If the maximum permissible revolutions is exceeded, the output of the sensor turns off.

1200 rpm 5.0 mm 4...15% 90...240 Vac / 40...60 Hz (U1) 40...100 Vac / 40...60 Hz (U2) 20... 50 Vac / 40...60 Hz (U3) 4.4 Vac 10...300mA 1,5mA **Thyristor** -25...+70°C **IP65** 2 x LED 2x0.5mm2, L=2m, PVC

M18x1, L = 59mm

CuZn (Ni plated)

6 ... 400 rpm

Type parameters

Туре	Output function
ISM1-18.71.U1	NO
ISM1-18.71.U1Z	NO

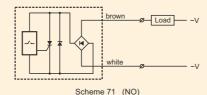




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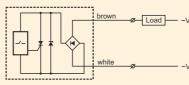
Housing - plastic Features:

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6 ... 400 rpm 1200 rpm 8,0 mm 4...15% 90...240 Vac / 40...60 Hz (U1) 40...100 Vac / 40...60 Hz (U2) 20... 50 Vac / 40...60 Hz (U3) 4.4 Vac 10...300mA 1,5mA **Thyristor** -25...+70°C **IP65** 2 x LED 2x0.5mm², L=2m, PVC M18x1. L = 59mm**PVC**

Type parameters

Туре	Output function
ISP1-18.71.U1	NO
ISP1-18.71.U1Z	NO



Scheme 71 (NO)



The presented inductive sensor serve to monitor the minimum turnovers of conveyor belts, elevators, lifts, shafts and other rotating parts. It is used in alternating current electrical circuits.

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Technical parameters

Range of regulation, N Maximum permissible revolutions, *Nmax* Switching distance, *Sn* Hysteresis, *h* Supply voltage, *Us*

Residual voltage, *Ures*Load current (max), *Iout*Current consumption, *Is*Output element
Operating temperature range, *Tamb*Degree of protection of the sensors
Light output indicator
Connection cable
Overall dimensions
Housing - metallic

Features:

There is no protection against short circuit at the output.

1200 rpm 9,5 mm 4...15% 90...240 Vac / 40...60 Hz (U1) 40...100 Vac / 40...60 Hz (U2) 20... 50 Vac / 40...60 Hz (U3) 4.4 Vac 10...300mA 1,5mA Thyristor -25...+70°C IP65 2 x LED 2x0.5mm², L=2m, PVC M30x1.5, L = 61mm

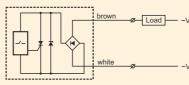
6 ... 400 rpm

Al (Aluminum)

Note: If the maximum permissible revolutions is exceeded, the output of the sensor turns off.

Type parameters

Туре	Output function
ISM1-30.71.U1	NO
ISM1-30.71.U1Z	NO



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Operating temperature range, *Tamb*Degree of protection of the sensors
Light output indicator
Connection cable
Overall dimensions
Housing - plastic

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1200 rpm
14,0 mm
4...15%
90...240 Vac / 40...60 Hz (U1)
40...100 Vac / 40...60 Hz (U2)
20... 50 Vac / 40...60 Hz (U3)
4.4 Vac
10...300mA
1,5mA
Thyristor
-25...+70°C
IP65
2 x LED
2x0.5mm², L=2m, PVC
M30x1.5, L = 61mm

6 ... 400 rpm

PVC

Type parameters

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