



# Gas discharge indicator type IN-14 (ИИ-14)



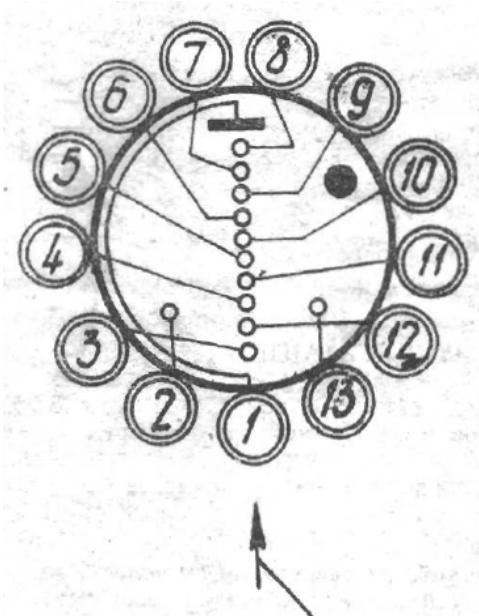
Datasheet translated by TubeHobby

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## Description

Gas discharge indicator is intended for visual indication of electrical signals in digital form in broad kind of equipment.

## Connection diagram



Arrow on glass

Pin number	Description
1	Anode
2	Cathode comma
3	Cathode "1"
4	Cathode "2"
5	Cathode "3"
6	Cathode "4"
7	Cathode "5"
8	Cathode "6"
9	Cathode "7"
10	Cathode "8"
11	Cathode "9"
12	Cathode "0"
13	Cathode comma

Pins are counted clockwise from pin #1 which is shown by arrow on glass body underneath the plastic spacer. Pins are counted looking to the tube from the pin's side (bottom).

## Basic electrical and lighting parameters

Firing voltage (no more than)	170V
Current for digits (no more than)	2.5mA
Current for commas (no more than)	0.3mA
Brightness (no less than)	100 cd/m <sup>2</sup>
Viewing angle (no less than)	+/- 30°

## Allowable limits

Power supply voltage	200V
Current for digits	2.0 - 3.5mA
Current for commas	0.3 – 0.7mA

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### Average current (supplying from mains 50Hz via single-period rectifier)

Current for digits (no more than)	2.0mA
Current for commas (no more than)	0.2mA

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### Multiplex mode

Power supply voltage	190V
Average current for digits	0.7 - 1.5mA
Average current for commas	0.15 – 0.6mA
Pulse current for digits	7 – 13mA
Pulse current for commas	1.5 – 5mA
Pulse width (no less than)	70µS
Period	1 – 1.8 kHz

Tube does not contain precious metals.

## Notes

Pin soldering and bending should be performed at least 5mm away from the glass body.  
Avoid multiple soldering – desoldering.

After long period of non-use it is recommended to train cathodes applying working current for 1 minute for each cathode.