

Индуктивные датчики IAS-20-A22, IAS-10-A22, IAS-20-A13, IAS-10-A13

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Inductive Sensors
Series 20 - NPN
Series 10 - PNP

Housing M 12 x 1

- Housing material: Brass
- Sensing distance $S_n = 4$ mm

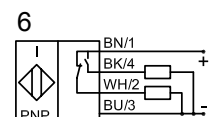
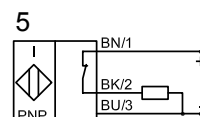
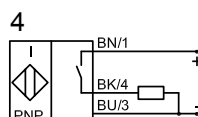
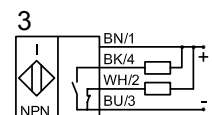
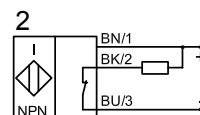
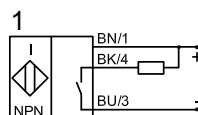
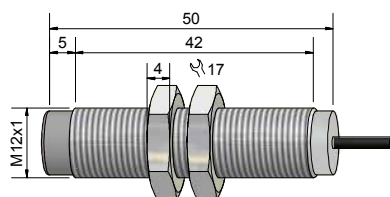
Certificate:



Technical data

Non-flush mountable

Operating distance S_n	4 mm
Electrical version	3-wire DC
Output	Normally open (NO)
Type NPN	IAS-20-A22-S-M12-PBT/ Ms-Z02-0
Art.-No.	IA 0249
Connection diagram No.	1
Type PNP	IAS-10-A22-S-M12-PBT/ Ms-Z02-0
Art.-No.	IA 0248
Connection diagram No.	4
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	200 mA
Voltage drop max. (U_d)	≤ 3 V
Permitted residual ripple max.	-
No-load current (I_o)	Typ. 17 mA
Frequency of operating cycles max.	1,2 kHz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable	3 m, PUR, 3 x 0,14 mm ²
Housing material	Brass
Active surface	PBT
Lid	BPT





Inductive Sensors

Series 10 - PNP

Housing M 12 x 1

- Housing material: Stainless steel
- Sensing distance $S_n = 4$ mm
- With flange connector M 12 x 1



Technical data

Non-flush mountable

Operating distance S_n	4 mm
Electrical version	3-pin DC
Output	Normally open (NO)

Type NPN

Art.-No.

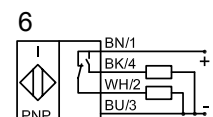
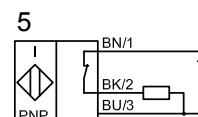
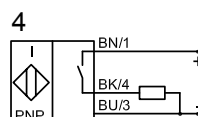
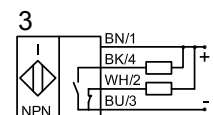
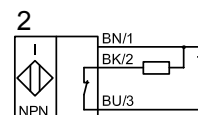
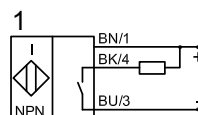
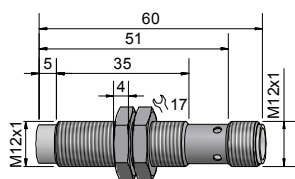
Connection diagram No.

Type PNP	IAS-10-A22-S-M12-PBT/ Ms-Y5-0
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Art.-No.

103 001

Connection diagram No.	4
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	150 mA
Voltage drop max. (U_d)	$\leq 2,5$ V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	2 kHz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60 947-5-2
Connection	Connector M 12 x 1
Housing material	VA No. 1.4305
Active surface	PA / PPO
Lid	-





Inductive Sensors
Series 20 - NPN
Series 10 - PNP

Housing M 18 x 1

- Housing material: Brass
- Sensing distance $S_n = 5 \text{ mm}$

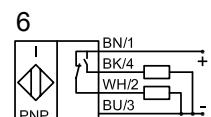
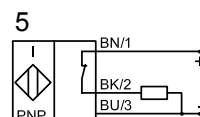
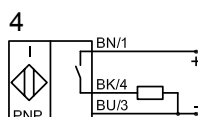
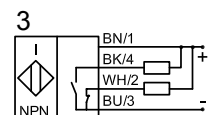
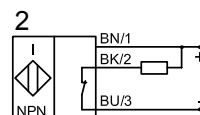
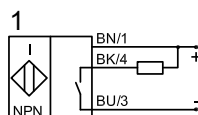
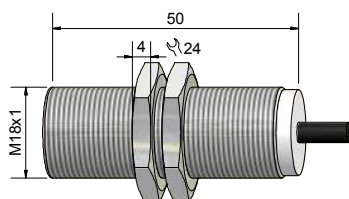
Certificate:



Technical data

Flush mountable

Operating distance S_n	5 mm
Electrical version	3-wire DC
Output	Normally open (NO)
Type NPN	IAS-20-A13-S-M18-PBT/ Ms-Z02-0
Art.-No.	IA 0250
Connection diagram No.	1
Type PNP	IAS-10-A13-S-M18-PBT/ Ms-Z02-0
Art.-No.	IA 0251
Connection diagram No.	4
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	200 mA
Voltage drop max. (U_d)	$\leq 3 \text{ V}$
Permitted residual ripple max.	-
No-load current (I_o)	$\leq 20 \text{ mA}$
Frequency of operating cycles max.	800 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable	2 m, PUR, 3 x 0.34 mm ²
Housing material	Brass
Active surface	PBT
Lid	BPT





Inductive Sensors

Series 10 - PNP

Housing M 18 x 1

- With increased sensing distance
- Housing material: Brass
- Sensing distance $S_n = 8\text{ mm}$

Certificate:



Technical data

Flush mountable

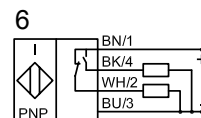
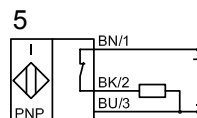
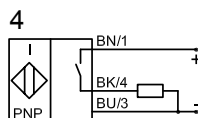
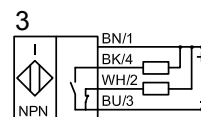
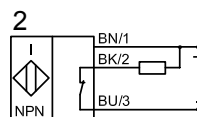
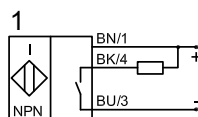
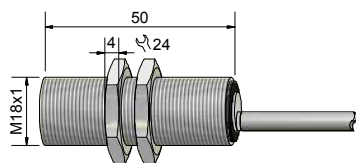
Operating distance S_n	8 mm
Electrical version	3-wire DC
Output	Normally open (NO)

Type NPN

Art.-No.

Connection diagram No.

Type PNP	IAS-10-A13-S-M18-PBTP/ Ms-Z02-0
Art.-No.	IA0185
Connection diagram No.	4
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	200 mA
Voltage drop max. (U_d)	$\leq 2,5\text{ V}$
Permitted residual ripple max.	10%
No-load current (I_o)	Typ. 10 mA
Frequency of operating cycles max.	1 kHz
Permitted ambient temperature	-25...+70 °C
LED-display	Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 3 x 0,34 mm ²
Housing material	Brass
Active surface	PBTP
Lid	PA / PBTB





Inductive Sensors

Series 10 - PNP

Housing M 18 x 1

- With increased sensing distance
- Housing material: Brass
- Sensing distance $S_n = 8$ mm
- With flange connector M 12 x 1



Technical data

Flush mountable

Operating distance S_n	8 mm
Electrical version	3-pin DC
Output	Normally open (NO)

Type PNP

Art.-No.

Connection diagram No.

Type PNP	IAS-10-A13-S-M18-PBTP/ Ms-Y5-0
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Art.-No.

IA0176

Connection diagram No.

4

Operating voltage (U_B)

10...30 V DC

Output current max. (I_o)

200 mA

Voltage drop max. (U_d)

$\leq 2,5$ V

Permitted residual ripple max.

10%

No-load current (I_o)

Typ. 10 mA

Frequency of operating cycles max.

1 kHz

Permitted ambient temperature

-25...+70 °C

LED-display

Yellow

Protective circuit

Built-in

Degree of protection IEC 60529

IP 67

Norm

EN 60947-5-2

Connection cable

Flange connector M 12 x 1

Housing material

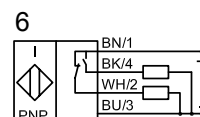
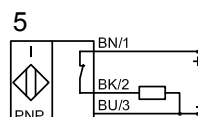
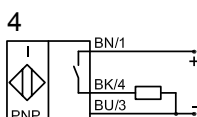
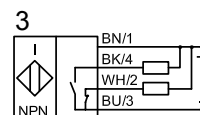
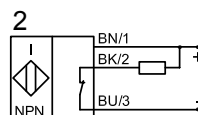
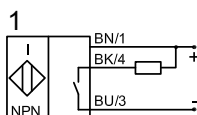
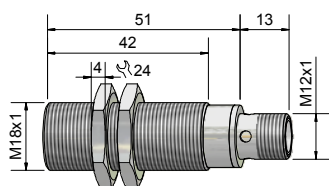
Brass

Active surface

PBTP

Lid

-





Inductive Sensors With Analogue Output

Series 10 - IL

Housing M 18 x 1

- Housing material: Brass
- Operating range 0...5 mm adjustable

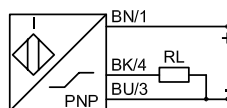
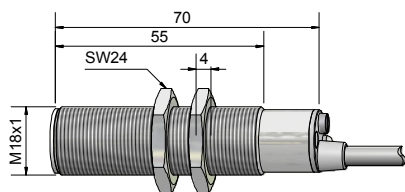
Certificate:



Technical data

Flush mountable

Operating range	0...5 mm
Linear range	1.5...5 mm
Electrical version	3-wire DC
Output function	Analogue
Type analogue	IAS-10-A13-IL-M18-PTFE/Ms-Z02-1
Art.-No.	105 750
Connection diagram No.	See below
Operating voltage (U_B)	15...30 V DC
Output current max. (I_o)	$\leq 4... > 20$ mA
Permitted residual ripple max.	5 %
No-load current (I_o)	Typ. 40 mA
Output current active surface free	> 20 mA
Output current active surface covered	$\leq 20... < 4$ mA
Load resistor	$R_L = 0...300 \Omega$
Permitted ambient temperature	0...+60 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60 947-5-2
Connection cable	2 m, PUR, 3 x 0.34 mm ²
Housing material	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO



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Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: ret@nt-rt.ru || сайт: <https://rechner.nt-rt.ru>