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Технические характеристики

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Череповец (8202)49-02-64
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Россия +7(495)268-04-70

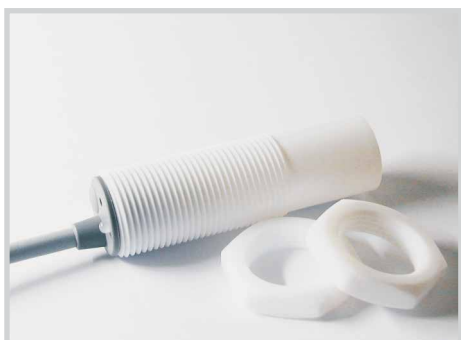
Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

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



Capacitive Sensors

Series 70 - NPN

Series 80 - PNP

Housing M 22 x 1.5

- Housing material: PTFE
- Useable for an ambient temperature up to +100 °C
- Sensing distance 0.5...20 mm adjustable
- Ideal for detection of chemically aggressive media
- Suitable for food applications



Certificate:

Technical data

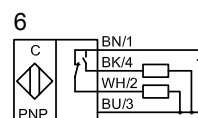
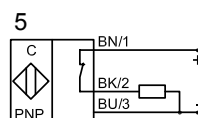
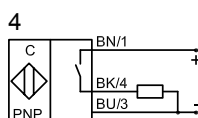
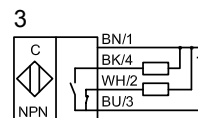
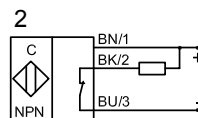
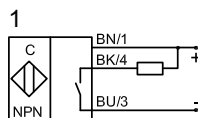
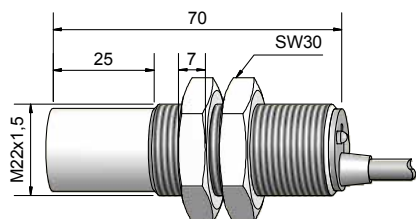
Non-flush mountable

Operating distance S_n	12 mm
Operating distance min. / max. adjustable	0.5...20 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-23-A-M22-PTFE-100C-Z02-1-HP
Art.-No.	712 910
Connection diagram No.	3
Type PNP	KAS-80-23-A-M22-PTFE-100C-Z02-1-HP
Art.-No.	812 910
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.34 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO

Accessories (is delivered with the unit)

2 pieces nuts M 22

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 32 x 1.5

- Housing material: PTFE
- Useable for an ambient temperature up to +100 °C
- Sensing distance 0.5...30 mm adjustable
- Ideal for detection of chemically aggressive media
- Suitable for food applications



Certificate:

Technical data

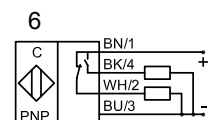
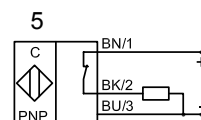
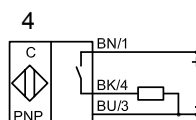
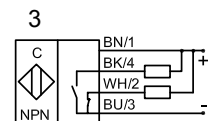
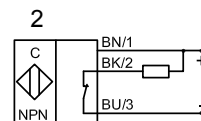
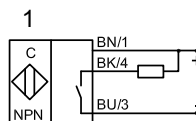
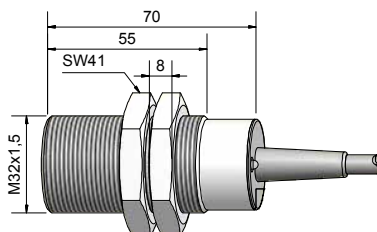
Flush mountable

Operating distance S_n	20 mm
Operating distance min. / max. adjustable	0.5...30 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-30-A-M32-PTFE-100C-Z02-1-HP
Art.-No.	715 831
Connection diagram No.	3
Type PNP	KAS-80-30-A-M32-PTFE-100C-Z02-1-HP
Art.-No.	815 831
Connection diagram No.	6
Operating voltage (U_b)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	200 Hz
Permitted ambient temperature	-25...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.5 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes

Accessories (is delivered with the unit)

2 pieces nuts M 32

* With sealed potentiometer screw





Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 32 x 1.5

- Housing material: PTFE
- Useable for an ambient temperature up to +100 °C
- Sensing distance 1...40 mm adjustable
- Ideal for detection of chemically aggressive media
- Suitable for food applications



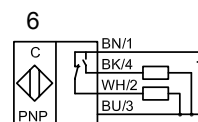
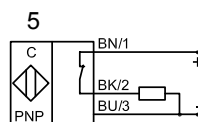
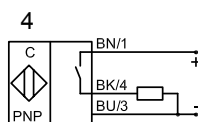
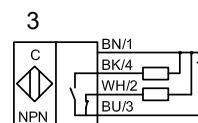
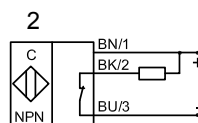
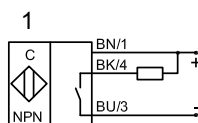
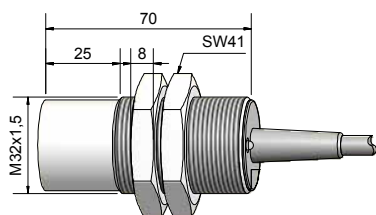
Certificate:

Technical data

Non-flush mountable

Operating distance S_n	25 mm
Operating distance min./max. adjustable	1...40 mm
Electrical version	4-wire DC
Output function	Antivalent
Type NPN	KAS-70-35-A-M32-PTFE-100C-Z02-1-HP
Art.-No.	719 255
Connection diagram No.	3
Type PNP	KAS-80-35-A-M32-PTFE-100C-Z02-1-HP
Art.-No.	819 255
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	2 x 250 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-25...+100 °C
LED-display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PVC, 4 x 0.5 mm ²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Media optimized	Yes
Accessories (is delivered with the unit)	2 pieces nuts M 32

* With sealed potentiometer screw





Capacitive Sensors ¹³

Series 2000 **-quattro**

Housing M 32 x 1.5

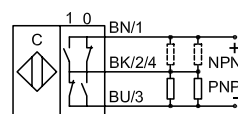
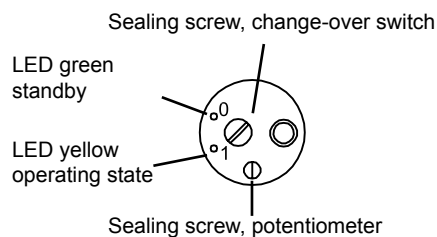
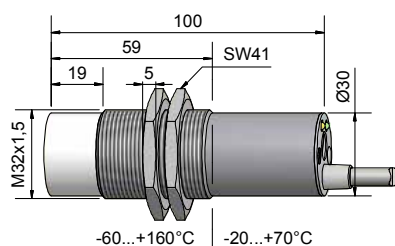
- Housing material: Stainless steel VA
- For level control with a product temperature up to +160 °C
- Sensing distance 2...20 mm adjustable
- Multifunction sensor: NPN / PNP;
NO / NC function switchable

Certificate:



Technical data	Non-flush mountable
Operating distance S_n	15 mm
Operating distance min./max. adjustable	2...20 mm
Electrical version	3-wire DC
Output	NO / NC function switchable
Type NPN / PNP switchable	KAS-2000-35-P-M32-PTFE/VA-160C-Z02-1
Art.-No.	771 100
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	400 mA
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
No-load current (I_o)	Typ. 15 mA
Frequency of operating cycles max.	50 Hz
Permitted ambient temperature	-60...+160 °C / -20...+70 °C
LED-display	Green & yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67*
Norm	EN 60947-5-2
Connection cable	2 m, PUR, 3 x 0.75 mm ²
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO
Accessories (is delivered with the unit)	2 pieces nuts M 32

* With sealed potentiometer screw





Capacitive high temperature sensors Series 250-M18/...

Housing M 18 x 1

- For connection to capacitive evaluation units KSA-...-14-...-BB
- Housing material: Stainless steel VA
- Useable for an ambient temperature -200...+250 °C
- Sensing distance 0...5 mm adjustable at the evaluation unit

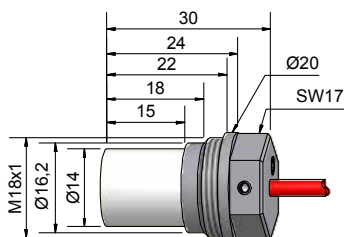
Certificate:



Technical data

Non-flush mountable

Operating distance S_n	3 mm
Operating distance adjustable	0...5 mm
Type	KS-250-M18/30-X-M18-PTFE/VAb-250C-X0E/Y26-0
Art.-No.	561 600
Permitted ambient temperature	-200...+250 °C
Enclosure rating IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable with plug-in connector	0.8 m FEP, Triax
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)





Capacitive high temperature sensors Series 250-M18/...

Housing M 18 x 1

- For connection to capacitive evaluation units KSA-...-14-...-BB
- Housing material: Stainless steel VA
- Useable for an ambient temperature -200...+250 °C
- Sensing distance 0...5 mm adjustable at the evaluation unit

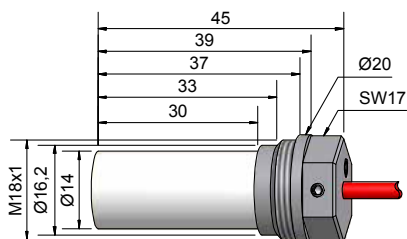
Certificate:



Technical data

Non-flush mountable

Operating distance S_n	3 mm
Operating distance adjustable	0...5 mm
Type	KS-250-M18/45-X-M18-PTFE/VAb-250C-X0E/Y26-0
Art.-No.	561 650
Permitted ambient temperature	-200...+250° C
Enclosure rating IEC 60529	IP 67
Norm	EN 60947-5-2
Connection cable with plug-in connector	0.8 m FEP, Triax
Housing material	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)





Capacitive Evaluation Unit

Series 70-14-...-BB - NPN

Series 80-14-...-BB - PNP

Housing 50 x 50 x 25 mm

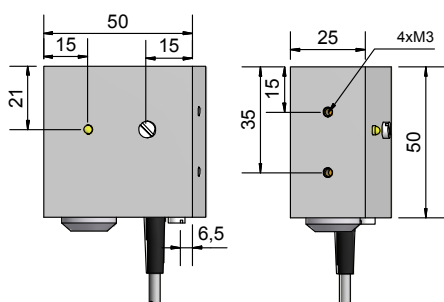
- For capacitive sensors KS-250-M18/...
- Hysteresis adjustable

Certificate:

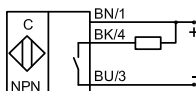


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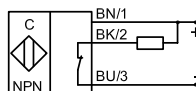
Electrical version	3-wire DC	3-wire DC
Output function	Normally open	Normally closed
Type NPN	KSA-70-BB-S-50x50x25-PA-Z02/Y26-1	
Art.-No.	563 100	
Connection diagram No.	1	
Type PNP	KSA-80-BB-Ö-50x50x25-PA-Z02/Y26-1	
Art.-No.	563 700	
Connection diagram No.	5	
Operating voltage (U_B)	10...35 V DC	10...35 V DC
Output current max. (I_e)	400 mA	400 mA
Voltage drop max. (U_d)	≤ 2.5 V	≤ 2.5 V
Permitted residual ripple max.	10 %	10 %
No-load current (I_0)	Typ. 10 mA	Typ. 10 mA
Frequency of operating cycles max.	50 Hz	50 Hz
Permitted ambient temperature	-25...+70 °C	-25...+70 °C
LED-display	Yellow	Yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m PVC, 3 x 0.14 mm ²	2 m PVC, 3 x 0.14 mm ²
Housing material	PA	PA



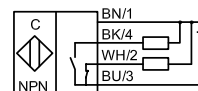
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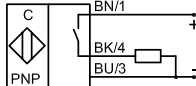
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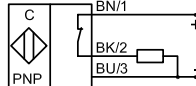
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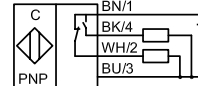
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5



6





Capacitive high temperature sensors Series 250

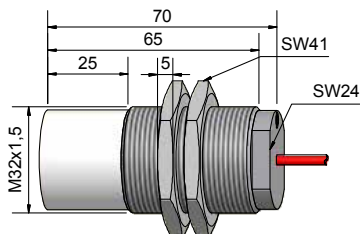
Housing M 32 x 1.5

- For connection to capacitive evaluation units KSA-250 and KSA-...-250-...-A-...
- Housing material: Stainless steel VA No. 1.4305
- Useable for an ambient temperature -200...+250 °C
- Sensing distance 3...20 mm adjustable at the evaluation unit

Certificate:



Technical data	Non-flush mountable	Non-flush mountable
Operating distance S_n	12 mm	12 mm
Operating distance adjustable	3...20 mm	3...15 mm
Type	KS-250-M32/70-X-M32-PTFE/Ab-250C-X02/Y24-0	KS-250-M32/70-X-M32-PTFE/Ab-250C-X05/Y24-0
Art.-No.	562 500	562 510
Permitted ambient temperature	-200...+250 °C	-200...+250 °C
Enclosure rating IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable with plug-in connector	2 m FEP, Triax	5 m FEP, Triax
Housing material	VA No. 1.4305	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Accessories (is delivered with the unit)	2 pieces nuts M 32	2 pieces nuts M 32





Capacitive high temperature sensors Series KS-250

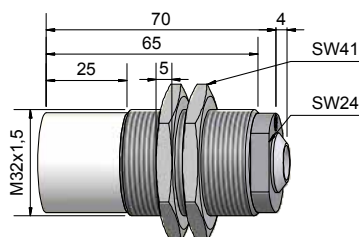
Housing M 32 x 1.5

- For connection to capacitive evaluation units KSA-250 and KSA-...-250-...-A-...
- Housing material: Stainless steel VA
- Useable for an ambient temperature -200...+250 °C
- Sensing distance 3...20 mm adjustable at the evaluation unit
- Connection cable and plug-in connector is supplied with the sensor

Certificate:



Technical data	Non-flush mountable	Non-flush mountable
Operating distance S_n	12 mm	12 mm
Operating distance adjustable	3...20 mm	3...15 mm
Type	KS-250-M32/70-X-M32-PTFE/VAb-250C-Y25/X02/Y24-0	KS-250-M32/70-X-M32-PTFE/VAb-250C-Y25/X05/Y24-0
Art.-No.	562 700	562 710
Permitted ambient temperature	-200...+250 °C	-200...+250 °C
Enclosure rating IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable with plug-in connector	Triax socket and plug-in connector with 2 m FEP, Triax	Triax socket and plug-in connector with 5 m FEP, Triax
Housing material	VA No. 1.4305	VA No. 1.4305
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Accessories (is delivered with the unit)	2 pieces nuts M 32	2 pieces nuts M 32
Connection cable available as spare part, for matching connection cable (#193300, #193301) please see our selection of accessories.		





Capacitive Evaluation Unit

Series 70-250 - NPN

Series 80-250 - PNP

Housing 75 x 47 x 30 mm

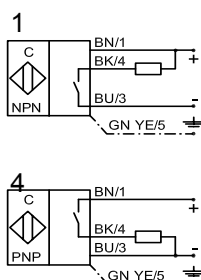
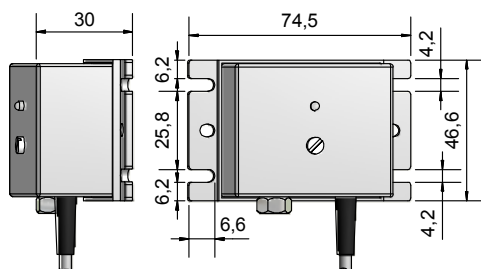
- For capacitive sensors KS-250-M32(-Y)

Certificate:



Technical data

Electrical version	5-wire DC	5-wire DC
Output function	Antivalent	Antivalent
Type NPN	KSA-70-B-A-75,5x46,6x30-PA-Z02/Y24-1	KSA-70-B-A-75,5x46,6x30-PA-Z02/Y24-1
Art.-No.	AK 0003	AK 0007
Type PNP	KSA-70-B-A-75,5x46,6x30-PA-Z02/Y24-1	KSA-70-B-A-75,5x46,6x30-PA-Z02/Y24-1
Art.-No.	AK 0004	AK 0008
Connection diagram No.	3	3
Type PNP	KSA-80-B-A-75,5x46,6x30-PA-Z02/Y24-1	KSA-80-B-A-75,5x46,6x30-PA-Z02/Y24-1
Art.-No.	AK 0005	AK 0009
Type PNP	KSA-80-B-A-75,5x46,6x30-PA-Z02/Y24-1	KSA-80-B-A-75,5x46,6x30-PA-Z02/Y24-1
Art.-No.	AK 0006	AK 0010
Connection diagram No.	6	6
Operating voltage (U_B)	10...35 V DC	10...35 V DC
Output current max. (I_o)	2 x 250 mA	2 x 250 mA
Voltage drop max. (U_d)	< 2.5 V	< 2.5 V
Permitted residual ripple max.	10 %	10 %
No-load current (I_o)	Typ. 15 mA	Typ. 15 mA
Frequency of operating cycles max.	50 Hz	50 Hz
Permitted ambient temperature	-25...+70 °C	-25...+70 °C
LED-display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 65	IP 65
Norm	EN 60947-5-2	EN 60947-5-2
Connection cable	2 m PVC, 5 x 0.14 mm ²	2 m PVC, 5 x 0.14 mm ²
Housing material	PA	PA





Capacitive Evaluation Unit Series 250 - 115V / 230V AC

Housing 40 x 70 x 110 mm

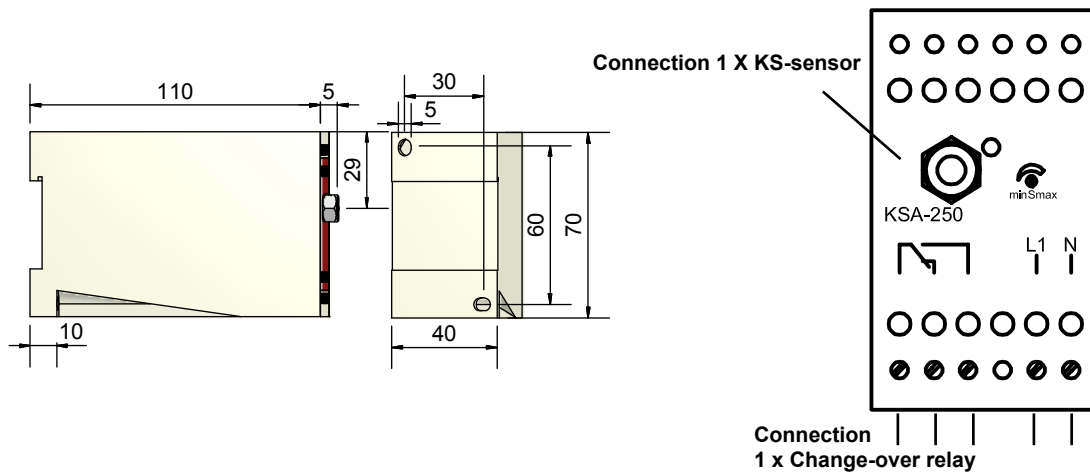
- For capacitive sensors KS-250-M22...M32

Certificate:



Technical data

Output function	1 x change-over contact	1 x change-over contact
Type	KSA-250-BXL-1CO-40x70x110-ABS-KL/Y24-1	KSA-250-BXL-1CO-40x70x110-ABS-KL/Y24-1
Art.-No.	560 101	560 100
Type	KSA-250-BXL-1CO-40x70x110-ABS-KL/Y24-1	KSA-250-BXL-1CO-40x70x110-ABS-KL/Y24-1
Art.-No.	560 106	560 102
Operating voltage (U _B)	90...130 V AC	200...250 V AC
Contact rating each relay max.	250 V / 6 A / 500 VA	250 V / 6 A / 500 VA
Power consumption	Typ. 3.5 VA	Typ. 3.5 VA
Permitted ambient temperature	-20...+60 °C	-20...+60 °C
LED-display	Yellow	Yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 20	IP 20
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Screw terminals and Triax-socket	Screw terminals and Triax-socket
Housing material	ABS	ABS



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Россия +7(495)268-04-70

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>