

Защитные ручки P-KUBE SMART для RFID-датчиков серии ST

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

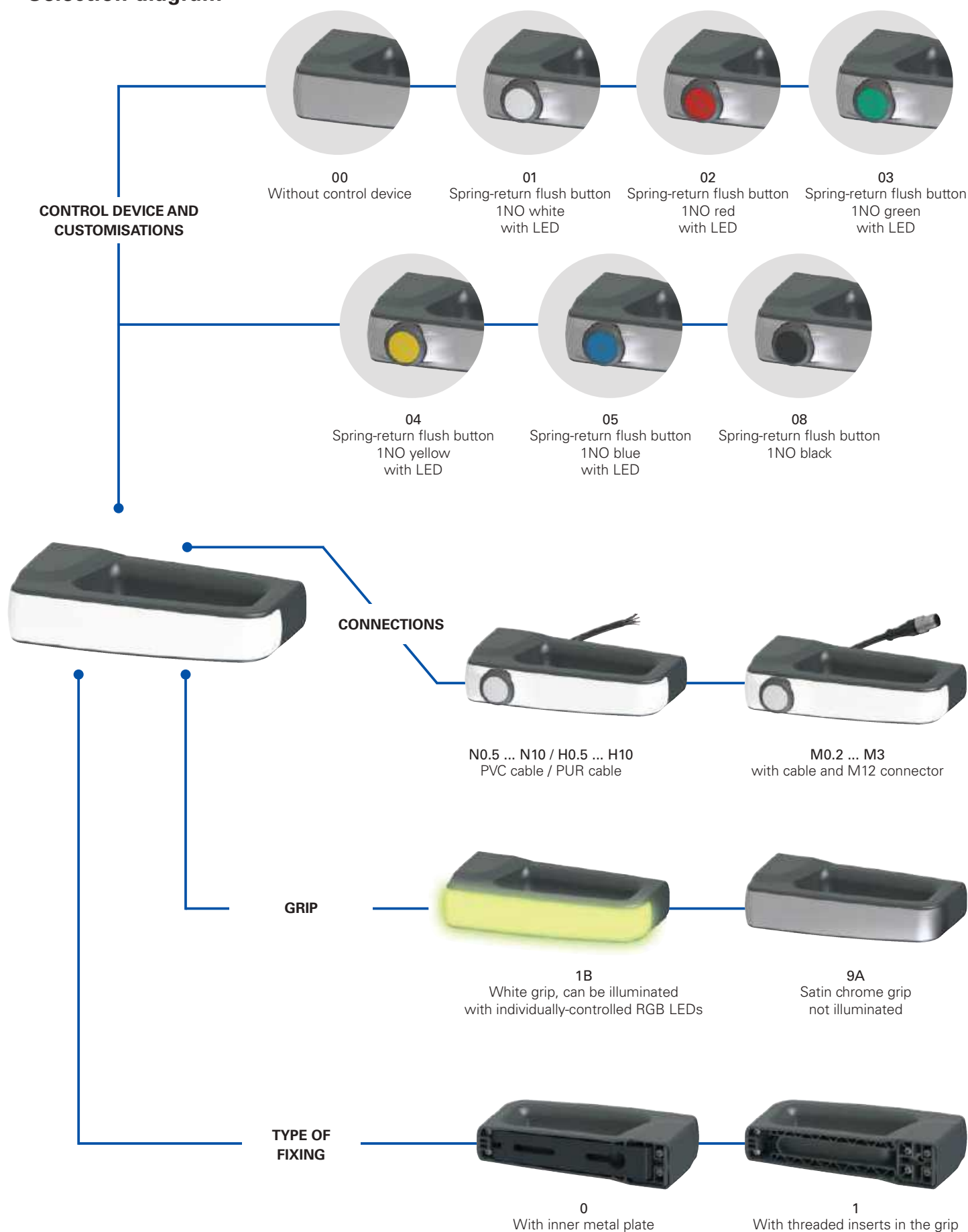
Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>

Selection diagram



—●— product option
 —→— Product sold separately

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office

article options
ANT1B000A1-PN3

Device type

T For ST series RFID sensors

Note: the sensors must be purchased separately.

Grip

1B White grip, can be illuminated with multicolor RGB LEDs supply voltage 24 Vdc

9A Satin chrome grip not illuminated

Type of fixing

0 With inner metal plate

1 On the grip with threaded inserts

Control device and customisations

00	Without control device
01	Spring-return flush button 1NO white with LED
02	Spring-return flush button 1NO red with LED
03	Spring-return flush button 1NO green with LED
04	Spring-return flush button 1NO yellow with LED
05	Spring-return flush button 1NO blue with LED
08	Spring-return flush button 1NO black

1NC, 1NO+1NC, 2NC or 2NO contacts available on request.
Other control devices available on request.
For further information contact our technical department.

RFID coding

Z	Without RFID tag
0	With RFID tag with low coding level The ST sensor identifies any RFID tag of type 0
1	With RFID tag with high coding level The ST sensor identifies one single RFID tag of type 1

Cable type and connection

M0.2 PVC cable, IEC 60332-1-2 oil resistant, length 0.15 m and M12 connector (standard)

M0.5 PVC cable, IEC 60332-1-2 oil resistant, length 0.5 m and M12 connector

...

M3 PVC cable, IEC 60332-1-2 oil resistant, length 3 m and M12 connector

N0.5 PVC cable, IEC 60332-1-2 oil resistant, length 0.5 m

...

N3 PVC cable, IEC 60332-1-2 oil resistant, length 3 m (standard)

...

N10 PVC cable, IEC 60332-1-2 oil resistant, length 10 m

H0.5 PUR cable, halogen free, length 0.5 m

...

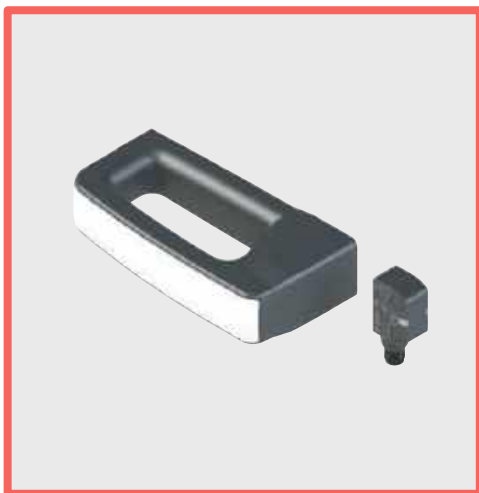
H3 PUR cable, halogen free, length 3 m (standard)

...

H10 PUR cable, halogen free, length 10 m

Output direction, connections

P rear output



Main features

- Modern and ergonomic design
- Versions with integrated RGB LEDs, for local signalling of guard state
- Customisable multicoloured illumination
- Illuminated control button integrated into grip
- Possibility of application with horizontal or vertical handle
- Direct fixing on the grip or through solid inner plate
- Usable with ST series RFID safety sensors

Quality marks:



UL approval: E131787
 TÜV SÜD approval: Z10 075157 0026 (in combination with ST series)
 EAC approval: RU C-IT.YT03.B.00035/19

Features approved by UL

Environmental ratings:
 Type 4X, 12, 13 (models without control component).
 Type 1 (models with control component).

Electrical ratings:
 Main rating (LED supply): 24 Vdc Class 2, 75 mA
 Secondary ratings (Contacts ratings control component):
 Silver contacts: 24 Vac Class 2, 1 A, Pilot Duty
 24 Vdc Class 2, 0.27 A, Pilot Duty
 Golden contacts: 24 Vdc Class 2, 100 mA

Accessory for series ST, ANT models.

Technical data

Materials

Internal fixing plate in steel, oven-cured powder-coated.
 Glass fibre reinforced technopolymer grip, self-extinguishing and shock-proof.

Electrical cables

Integrated mobile installation cable 8 x 0.25 mm² or 5 x 0.25 mm².
 Versions with 3 m integrated cable, other lengths 0.5 to 10 m on request.
 Versions with 0.15 m cable length and M12 connector, other lengths 0.15 ... 3 m available on request.

General data

Protection degree	
Versions with control device:	IP65 acc. to EN 60529
Versions without control device:	IP67 acc. to EN 60529 IP69K acc. to ISO 20653
Ambient temperature:	-20°C ... +50°C
Storage temperature:	-40°C ... +75°C
Mission time:	20 years

Power supply electrical data

Rated operating voltage U_e :	24 Vdc $\pm$ 15%
Operating current at U_e voltage:	60 mA max
External protection fuse:	1 A type Gg or equivalent device

Electrical data of RGB LED control inputs

Rated operating voltage U_{e1} :	24 Vdc
Operating current at U_{e1} voltage:	5 mA
RGB LED life:	min. 100,000 hours at rated voltage and +25 °C ambient temperature

Technical data of the control devices

Mechanical endurance:	1 million operating cycles
Actuating force:	4 N min, 100 N max
Material of the contacts:	silver contacts
Contact type:	Self-cleaning contacts with double interruption
Thermal current I_{th2} :	1 A
Rated insulation voltage U_{i2} :	32 Vac/dc
Rated impulse withstand voltage U_{imp2} :	1.5 kV
LED supply voltage:	24 Vdc $\pm$ 15%
Single LED supply current:	10 mA
Utilization category of the contact block:	DC13; U_{e2} =24 Vdc, I_{e2} =0.55 A

Actuation data

Assured operating distance S_{ao} :	11 mm
Assured release distance S_{ar} :	24 mm
Rated operating distance S_n :	15 mm
Rated release distance S_{nr} :	18.5 mm
Repeat accuracy:	$\leq 10\%$ s_n
Differential travel:	$\leq 20\%$ s_n
RFID transponder frequency:	125 kHz
Max. switching frequency:	1 Hz

In compliance with standards:

For articles with integrated electrical parts:
 IEC 60947-5-1, EN 60947-5-1, IEC 60947-1, EN 60947-1, IEC 60529, EN 60529,
 EN IEC 63000, UL 508, CSA C22.2 No. 14.

Compliance with the requirements of:

For articles with integrated electrical parts:
 Low Voltage Directive 2014/35/EU,
 EMC Directive 2014/30/EU.
 RoHS Directive 2011/65/EU.

Selection table for handles

With RFID at a high level of coding for ST series sensors.
Connection cable not necessary

 Without control device	With satin chrome grip with fixing on internal metal plate		With satin chrome grip with fixing on the grip	
				
	ANT9A000A1		ANT9A100A1	

With 3 m long PVC cable
and RFID at a high level of coding for ST series sensors

 Without control device	With satin chrome grip with fixing on internal metal plate		With satin chrome grip with fixing on the grip		With illuminated white grip with fixing on the internal metal plate		With illuminated white grip with fixing on the grip	
	/		/					
	ANT9A001A1-PN3		ANT9A101A1-PN3		ANT1B001A1-PN3		ANT1B101A1-PN3	
 With spring-return button, 1NO, white, illuminated	ANT9A002A1-PN3		ANT9A102A1-PN3		ANT1B002A1-PN3		ANT1B102A1-PN3	
 With spring-return button, 1NO, red, illuminated	ANT9A003A1-PN3		ANT9A103A1-PN3		ANT1B003A1-PN3		ANT1B103A1-PN3	
 With spring-return button, 1NO, green, illuminated	ANT9A004A1-PN3		ANT9A104A1-PN3		ANT1B004A1-PN3		ANT1B104A1-PN3	
 With spring-return button, 1NO, yellow, illuminated	ANT9A005A1-PN3		ANT9A105A1-PN3		ANT1B005A1-PN3		ANT1B105A1-PN3	
 With spring-return button, 1NO, blue, illuminated	ANT9A008A1-PN3		ANT9A108A1-PN3		ANT1B008A1-PN3		ANT1B108A1-PN3	

With 0.15 m long PVC cable and M12 connector and
RFID at a high level of coding for ST series sensors

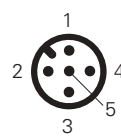
 Without control device	With satin chrome grip with fixing on internal metal plate		With satin chrome grip with fixing on the grip		With illuminated white grip with fixing on the internal metal plate		With illuminated white grip with fixing on the grip	
	/		/					
	ANT9A001A1-PM0.2		ANT9A101A1-PM0.2		ANT1B001A1-PM0.2		ANT1B101A1-PM0.2	
 With spring-return button, 1NO, white, illuminated	ANT9A002A1-PM0.2		ANT9A102A1-PM0.2		ANT1B002A1-PM0.2		ANT1B102A1-PM0.2	
 With spring-return button, 1NO, red, illuminated	ANT9A003A1-PM0.2		ANT9A103A1-PM0.2		ANT1B003A1-PM0.2		ANT1B103A1-PM0.2	
 With spring-return button, 1NO, green, illuminated	ANT9A004A1-PM0.2		ANT9A104A1-PM0.2		ANT1B004A1-PM0.2		ANT1B104A1-PM0.2	
 With spring-return button, 1NO, yellow, illuminated	ANT9A005A1-PM0.2		ANT9A105A1-PM0.2		ANT1B005A1-PM0.2		ANT1B105A1-PM0.2	
 With spring-return button, 1NO, blue, illuminated	ANT9A008A1-PM0.2		ANT9A108A1-PM0.2		ANT1B008A1-PM0.2		ANT1B108A1-PM0.2	

Note: To order a product with PUR cable, replace the letter N or M with the letter H in the order codes shown above.

Selection table for sensors

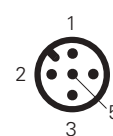
OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable			
						with 0.2 m cable length and M12 connector	with cable	with M12 connector
2	1	2	1	-	•	ST GD420M0.2	ST GD420N•	ST GD420MP

Electrical connections



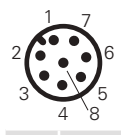

Versions with button
articles ANT9A••••

Pin	Cable colour	Connection
1	brown	Supply to white button LED +24 Vdc
2	white	Supply to white button LED 0 V
3	blue	Disconnected
4	black	Button NO contact
5	grey	Button NO contact




Versions with illuminated grip
articles ANT1B000•

Pin	Cable colour	Connection
1	brown	Supply input +24 Vdc
2	white	Supply input +0 Vdc
3	blue	Control input blue (B) +24 Vdc
4	black	Control input red (R) +24 Vdc
5	grey	Control input green (G) +24 Vdc




Versions with button and illuminated grip
articles ANT1B••••

Pin	Cable colour	Connection
1	white	Supply input +0 Vdc
2	brown	Supply input +24 Vdc
3	green	Control input green (G) +24 Vdc
4	yellow	LED power supply for button lighting +24 Vdc
5	grey	Button NO contact
6	pink	Button NO contact
7	blue	Control input blue (B) +24 Vdc
8	red	Control input red (R) +24 Vdc

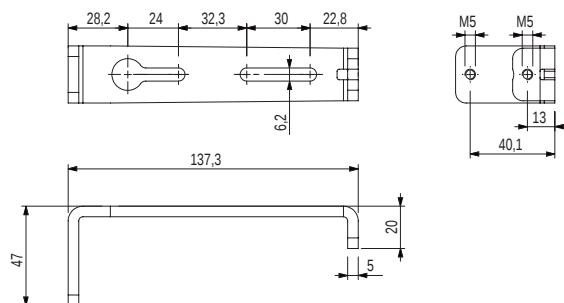
LED grip lighting combinations

R	G	B	Colour	R	G	B	Colour
0	0	0		1	1	0	
1	0	0		1	0	1	
0	1	0		0	1	1	
0	0	1		1	1	1	

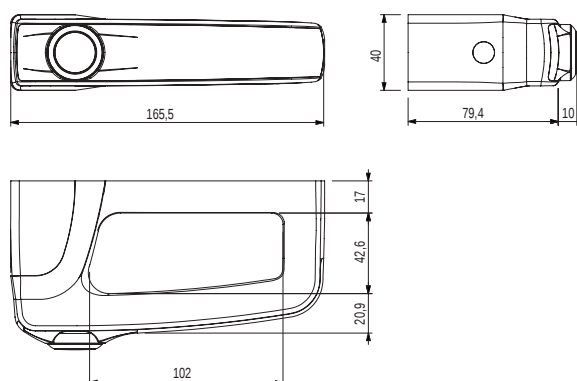
0 = colour control input off, 1 = colour control input on.

Dimensional drawings

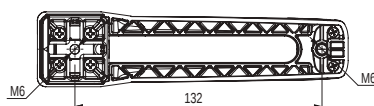
Internal fixing plate (articles ANT••0••••)



Grip



Threaded fixing inserts (articles ANT••1••••)



All values in the drawings are in mm

→ The 2D and 3D files are available at

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>