



Product specification sheet Metacon-Next



RUIT-K

burglar-resistant diamond-shaped roller grilles

CERTIFICATION

CE marked in accordance with

EN 13241:2003 + A2:2016

safety and performance requirements for industrial doors

TECHNICAL SPECIFICATIONS

Min. dimensions (total measures)

width 1.000 mm, height 1.000 mm, opening 1,0 m²

Max. dimensions (total measures)

width 8.000 mm, height 6.500 mm, opening 52 m²

Maximum cycles per day

200 cycles (with a motor duty cycle of 60%)

Opening speed

± 130 mm/sec

Closing speed

± 130 mm/sec

Installation

on the wall/opening or in the wall/opening
installation in the wall/opening is only possible on the non-motor side

Standard operation

dead man's control

Recommended temperature range

between +5°C and +40°C

SPECIFICATION OF MATERIALS

Door leaf

Thickness of strips	4,0 mm
Strip width	16,0 mm (till width 5.000 mm) 18,0 mm (till width 7.000 mm) 20,0 mm (till width 8.000 mm)
Mesh dimensions / visibility	185 mm x 120 mm (w x h)
Weight	± 15 kg/m ²
Material	galvanized steel
Visual transparency	± 85 %

Bottom profile

Type	aluminum bottom rail, including rubber profile with a hollow chamber
Height	105 mm
Tread depth	23 mm
Weight	± 2,5 kg/m1
Material	double-walled aluminum + EPDM 70 rubber profile

Side guides

Dimensions U guide profile	80 x 52 x 80 x 3 mm
Dimensions tube	50 x 50 x 2 mm or 50 x 80 x 2 mm
Weight	± 7,5 kg/m1 per side guide
Material	galvanized steel
Lining in the guide	plastic, grey

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Consoles / brackets

Types	square 250, 300, 350, 400, 450 or 500 mm, depending on the size of the roller shutter
Weight	± 5 kg per bracket
Material	galvanized steel

Tube / drive shaft

Dimensions	Ø 101,6, 133,0, 159,0 mm, 168,3 or 193,7 mm, depending on the size of the roller shutter
Weight	± 20 kg/m1
Material	electrolytically galvanized steel

Safety

Safety	safety catch device with integrated safety switch
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OPTIONS

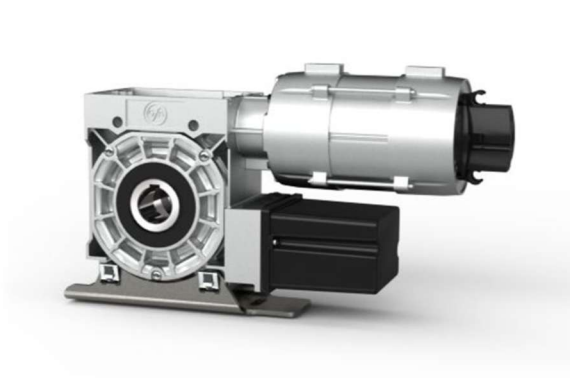
Application indoor/outdoor situation	yes
Max. wind class	2
Cover box roll/motor, galvanized steel	choice in front plate, top plate, rear plate, motor casing <i>weight of $\pm 10 \text{ kg/m}^1$</i>
Emergency operation	by means of an endless chain
External control switches	key switch up-down pressure switch up-stop-down rotary switch up-down
Optional operation	automatic, possible in combination with the control box TS 971 of TS 981 and a safety edge device (8 K2 Ohm), a set of photocell barriers (Ligi OSE-01) or a set of photocells (LS1 AP-ECO)
Handheld transmitter (for automatic operation)	2- or 4-channel, for use with the control box TS 971 of TS 981
Anti-climb protection	using two sets of photocells and safety edge device in conjunction with the control box TS 981 <i>mandatory with automatic operation</i>
Traffic light control system	with control box TS 981 in conjunction with green traffic light and red traffic light
Mechanical lock	pen lock with bracket, cylinder and insulator box ground pot including lock

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Optional version of door leaf material	aluminum, stainless steel INOX 304
Door leaf fitted with a crossbar	yes, but with restrictions on dimensions due to an increase in door leaf weight of $\pm 8 \text{ kg/m}^2$
Floor/ceiling mounting	by floor plate and a sliding tube with mounting plate
Optional color finish	various RAL, NCS and Sikkens colors by means of coating standard gloss level $\pm 70\%$ optional gloss level $\pm 30\%$, matt standard classification C3; single layer, layer thickness ± 80 to 100 microns (mu) optional classification C4 or C5; 3-layer, layer thickness ± 180 to 240 microns (mu)

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OPERATION



Shaft motor

GFA, types SI - NHK (emergency control) - DES (digital limit switches)

Control box

GFA TS 970 *(dead man control)*
GFA TS 971 *(automatic operation)*
GFA TS 981 *(automatic operation, pulse mode, e.g. car parks)*

Required power supply

3N~400 Vac $\pm$ 10%, 50 Hz

Cable length at the control box

3, 5, 7, 11 meters

Standard operation

dead man's switch (hold the switch down; the door stops when you let go)

Optional operation

automatically operated (override contact), can be used in conjunction with a safety edge device or a set of photocell barriers

Specifications shaft motors GFA SI

	SI 17.15	SI 25.15	SI 40.15	SI 55.15	SI 65.15	SI 75.15	SI 100.10	SI 110.7
Revolutions per minute	15	15	15	15	15	15	10	7
Limit switch range	20	20	20	20	20	20	20	20
Power consumption (W)	0,76 kW	0,64 kW	1,25 kW	1,71 kW	1,71 kW	1,5 kW	2,25 kW	1,71 kW
Torque (NM)	170	250	400	550	650	750	1000	1100
Mains voltage	3~400V - 50 Hz	3~400V - 50 Hz	3~400V - 50 Hz	3~400V - 50 Hz	3~400V - 50 Hz	3~400V - 50 Hz	3~400V - 50 Hz	3~400V - 50 Hz
Current	2,2	1,8	2,5	4,2	4,2	4,1	6,5	4,2
Power factor	0,5	0,51	0,72	0,59	0,59	0,53	0,5	0,59
Cycles per hour	8	9	9	9	9	9	7	7
Shaft diameter	30 mm	30 mm	40 mm	40 mm	40 mm	50 mm	55 mm	55 mm
Limit switch	DES	DES	DES	DES	DES	DES	DES	DES
Emergency control	rod	rod	rod	rod	rod	rod	rod	rod
Protection class	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Weight (kg)	15,5	21	28	30	35	47	49	50

Specifications control box TS 970

type	specification
Housing dimensions (W x H x D)	155 mm x 386 mm x 90 mm
Weight	5 kg
Power consumption	10 VA
Power supply	1N~230 V, PE, 50/60 Hz 3N~230-400 V, PE, 50/60 Hz 3~230-400 V, PE, 50/60 Hz
Fuse	10-16 A
Motor power	3 kW
External supply voltage	24 Vdc - 0,18 A
Relay outputs	potential-free changeover contacts
Rated load of relay contacts	230 V AC - 1 A
Protection class	IP 65
Operating ambient temperature	-10°C to + 50°C
Storage ambient temperature	0°C to + 50°C
Enclosure protection class	IP 65
Relative humidity	max. 93% (non-condensing)
Vibration	vibration-free installation (e.g. brick wall)

Specifications control box TS 971

type	specification
Housing dimensions (W x H x D)	155 mm x 386 mm x 90 mm
Weight	5 kg
Power consumption	10 VA
Power supply	1N~230 V, PE, 50/60 Hz 3N~230-400 V, PE, 50/60 Hz 3~230-400 V, PE, 50/60 Hz
Fuse	10-16 A
Motor power	3 kW
External supply voltage	24 Vdc - 0,35 A
Relay outputs	potential-free changeover contacts
Rated load of relay contacts	230 V AC - 1 A
Protection class	IP 65
Operating ambient temperature	-10°C to + 50°C
Storage ambient temperature	0°C to + 50°C
Enclosure protection class	IP 65
Relative humidity	max. 93% (non-condensing)
Vibration	vibration-free installation (e.g. brick wall)

Specifications control box TS 981

type	specificatie
Housing dimensions (w x h x d)	190 mm x 300 mm x 115 mm
Weight	5 kg
Power consumption	10 VA
Power supply	3~230-400 V ± 5%, 50/60 Hz 1N~230 V ± 5%, 50/60 Hz
Fuse	10-16 A
Motor power	3 kW
External supply voltage	230 V (via L1 and N) 24 Vdc – max. 1.000 mA load capacity, protected by an electronic fuse
Control inputs	24 V DC / 10 mA
Potential-free relay contacts	When switching inductive loads (e.g. further relays), these must be fitted with free-wheeling diodes and appropriate anti-interference measures. Contact load at 230 V, max. 1 A.
Stop light contacts	230 V LED bulbs, max. 40 W
Protection class	IP 54
Operating ambient temperature	-10°C to + 50°C
Storage ambient temperature	0°C to + 50°C
Enclosure protection class	IP 54
Relative humidity	max. 93% (non-condensing)
Vibration	vibration-free installation (e.g. brick wall)

