



Product specification sheet Metacon-Next



ISO Light

burglar-resistant insulated roller shutter

ISO Light

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	25 cycles
Opening speed	± 130 mm/sec
Closing speed	± 130 mm/sec
Installation	on the wall/opening or in the wall/opening <i>installation in the wall/opening is only possible on the non-motor side</i>
Standard operation	dead man's control
Recommended temperature range	between +5°C and +40°C

SPECIFICATION OF MATERIALS

Slats

Thickness	23 mm
Height	95 mm
Tread depth	20 mm
Profiling	2 interlocking profiled shells, thickness 0,4 mm, including foam filling
Weight	$\pm 9,8 \text{ kg/m}^2$
Material	double-walled, spherical galvanized steel
Thermal insulation value (U-value)	3,47 W/m ² K
Sound reduction value	22 dB

Bottom profile

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

Side guides

Dimensions U guide profile	50 x 33 x 50 x 3 mm or 75 x 33 x 75 x 3 mm
Dimensions tube	50 x 50 x 2 mm or 50 x 80 x 2 mm
Weight	$\pm 7,5 \text{ kg/m1}$ per side guide
Material	galvanized steel

ISO Light

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
--------	---

ISO Light

OPTIONS

Application indoor/outdoor situation	yes
Max. wind class	3 <i>till max. width 6.000 mm</i>
Cover box roll/motor, galvanized steel	choice in front plate, top plate, rear plate, motor casing <i>weight of ± 10 kg/m¹</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
Mechanical lock	pen lock with bracket, cylinder and insulator box ground pot including lock
Floor/ceiling mounting	by floor plate and a sliding tube with mounting plate
Optional color slats (standard colors)	RAL 3000, 5010, 6009, 7005, 7016, 7044, 8014, 9002, 9006, 9007, 9016
Optional color slats (based on coating)	various RAL colors, single layer, C3 class, $\pm 70\%$ gloss level, coating layer thickness ± 80 to 100 μ

ISO Light

Optional color finish side guides and cover box

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 (μ)

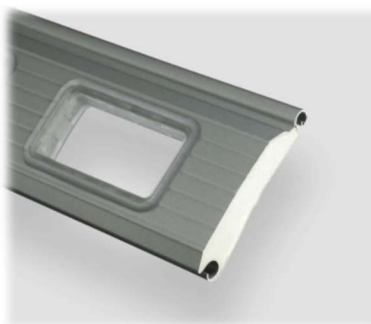
optional classification C4 or C5; 3-layer, layer thickness ± 180 to 240 microns (μ)

Slats fitted with viewing windows

yes, $100 \text{ mm} \times 50 \text{ mm}$ (w x h), max. 6 windows per meter;
 $\pm 35\%$ light transmission per m^2

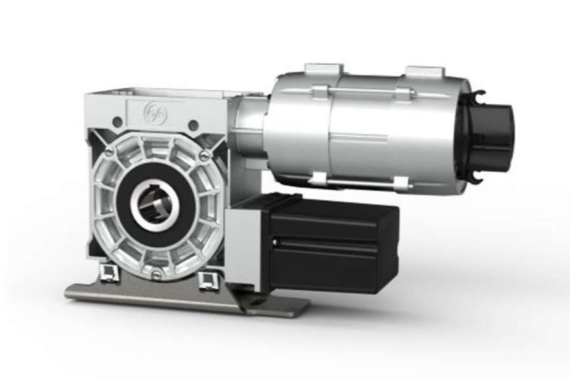
Slats fitted with ventilation grilles

yes, $100 \text{ mm} \times 55 \text{ mm}$ (w x h), max. 6 grilles per meter;
 $\pm 5\%$ air permeability per m^2



ISO Light

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

ISO Light

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)

ISO Light

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 $\pm$ 5%, 50/60 Hz 1N~230 V $\pm$ 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)

