



Product specification sheet Metacon-Next



TRANS-Q

burglary-resistant transparent roller shutter

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 m ²
Max. dimensions (total measures)	width 8.000 mm, height 6.500 mm, opening ± 30 m ²
Maximum cycles per day	8 cycles
Opening speed	± 130 mm/sec
Closing speed	± 130 mm/sec
Installation	on the wall/opening or in the wall/opening
Standard operation	dead man's control
Recommended temperature range	between +10°C and +40°C

SPECIFICATION OF MATERIALS

Slat / panel

Thickness of material	6 mm
Length panel	3.000 mm
Height panel	depending on the height of the roller shutter in combination with the diameter of the roller tube/shaft, due to the square winding mechanism
Weight	± 10,8 kg/m ²
Material	polycarbonate
Finish type	standard quality
Visual transparency	± 85 %
Fire class in accordance with EN 13501-1	B-s1, d0
Vertical coupling profiles	anodized aluminum, 38 x 25 mm

Bottom profile

Type	aluminum bottom rail, including rubber profile with a hollow chamber
Height	95 mm
Tread depth	18 mm
Weight	± 2,5 kg/m ¹
Material	double-walled aluminum + TPE 25.30 TsTLL rubber profile

Side guides

Dimensions U guide profile	74 x 46 x 70 mm or 90 x 50 x 90 mm
Material	anodized aluminum
Dimensions tube	50 x 50 x 2 mm or 50 x 80 x 2 mm
Material	galvanized steel
Weight	± 7,5 kg/m ¹ per side guide

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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 or 159,0 mm, depending on the size of the roller shutter
Weight	± 20 kg/m ¹
Material	electrolytically galvanized steel

Safety

Safety	safety catch device with integrated safety switch
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OPTIES

Application indoor/outdoor situation	yes
Max. wind class	2 <i>till max. width 5.000 mm</i>
Cover box roll/motor, galvanized steel	choice in front plate, top plate, rear plate <i>weight of ± 10 kg/m¹</i>
Burglary resistance class in accordance with NEN 5096	WK 3 <i>- till max. width 6.420 mm</i> <i>- including, amongst other things, a lower slat with a reinforced steel strip and corner strip, pin locks, and an insulator box mounted on the side guides on the cover box side</i>
Burglary resistance class in accordance with EN 1627-1630	RC 3 <i>- till max. measures 3.300 mm x 3.900 mm (w x h)</i> <i>- including, amongst other things, a special lower slat with reinforced and strengthened profiles, electric locks integrated into the guides, and an insulator box</i>
Panel finish	scratch-resistant quality
Emergency power supply	external battery/UPS with standby function, activated using the supplied key switch and adapter, allowing the roller shutter to be opened once <i>suitable for use in spaces between 0 and 40 degrees Celsius, not in dusty and/or humid environments</i>
Emergency operation	by a connecting rod, length 1.600 mm, for operating the tubular motor
External control switches	key switch up-down pressure switch up-stop-down rotary switch up-down

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Optional operation	automatic, possible in combination with the control box MO 710 AMFN 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 MO 710 AMFN and receiver circuit board
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 finish panels	bronze <i>(type 2850, 50% UV light transmission)</i> <i>please note: this is only available for standard-quality panels, not for scratch-resistant panels</i>
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 $\pm$ 80 to 100 microns (mu) optional classification C4 or C5; 3-layer, layer thickness $\pm$ 180 to 240 microns (mu)

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OPERATION



Tubular motor T6 (DMI) (emergency manual control)

SIMU, types T6-40 t/m 120 Nm

Tubular motor T8 (M) T8S (DMI) (emergency manual control) SIMU, types T8-130 t/m 450 Nm

Control box

Tedsen MO 713 (dead man control)
Tedsen MO 710 AMFN (automatic operation)

Required power supply

1N~230 Vac $\pm$ 10%, 50 Hz

Cable length at the control box

1.500 mm

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 tubular motors SIMU T6

	T6-40	T6-60	T6-80	T6-100	T6-120
Revolutions per minute (rpm)	17	12	12	12	12
Maximum number of revolutions	28	28	28	28	28
Power consumption (W)	240	240	290	350	400
Torque (NM)	40	60	80	100	120
Mains voltage	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz
Cable length on tubular motor	2,5 meters	2,5 meters	2,5 meters	2,5 meters	2,5 meters
Current at no load (AMP)	1.05	1	1.2	1.4	1.5
Current at full load (AMP)	1.1	1.1	1.35	1.6	1.8
Current with shaft blocked (AMP)	1.6	1.6	1.95	2.3	2.5
Starting current (AMP)	± 2,5A	± 2,5A	± 3,0A	± 3,5A	± 3,8A
Cycles per 24 hours	8	8	8	8	8
Duty cycle (min)	4	4	4	4	4
Protection class	IP44	IP44	IP44	IP44	IP44

Specifications tubular motors SIMU T8

	T8-130	T8-150	T8-200	T8-250	T8-300	T8-350	T8-450
Revolutions per minute (rpm)	130	150	200	250	300	350	450
Maximum number of revolutions	17	17	17	17	17	15	15
Power consumption (W)	450	450	710	710	855	920	1200
Torque (NM)	130	150	200	250	300	350	450
Mains voltage	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz	230V AC / 50Hz
Cable length on tubular motor	2.5 meter	2.5 meter	2.5 meter	2.5 meter	2.5 meter	2.5 meter	2.5 meter
Current at no load (AMP)	1.6	1.8	1.8	3.1	3.13	3.2	3.5
Current at full load (AMP)	1,9	2	2.5	3.2	3.9	4.4	5.3
Current with shaft blocked (AMP)	2.5	2.7	2.8	6.4	6.9	5.4	10.1
Starting current (AMP)	5.3	5.8	6	13.6	13	11.5	21.5
Cycles per 24 hours	8	8	8	8	8	8	8
Duty cycle (min)	4	4	4	4	4	4	4
Protection class	IP44	IP44	IP44	IP44	IP44	IP44	IP44

Specifications control box Tedsen MO 713

type	specification
Housing dimensions (L x W x H)	175 mm x 175 mm x 75 mm
Protection rating	with compression fittings (IP54), with PG glands (IP65)
Standby power consumption at 230V 50Hz	± 3,7 W without the receiver circuit board ± 4,6 W with the EKXR710 receiver circuit board
Mains voltage	230 VAC ± 10%, 50 Hz
Weight including housing	± 780 grams
Permissible storage temperature	-20°C to +70°C
Permissible operating temperature	-10°C to +50°C
Relative humidity	95% non-condensing
Motor	230V single-phase AC motor, max. 1500 VA
Uext	24 V DC and 12 V DC, total current draw max. 100 mA

Specifications control box Tedsen MO 710 AMFN

type	specification
Housing dimensions (L x W x H)	250 mm x 175 mm x 75 mm
Protection rating	with G503 cable glands (IP67), with PG cable glands (IP65)
Standby power consumption at 230V	± 3,7 W without the receiver circuit board ± 4,6 W with the EKXR710 receiver circuit board
Mains voltage	230 VAC ± 10%, 50 Hz
Weight including housing	± 800 grams
Permissible storage temperature	-20°C to +70°C
Permissible operating temperature	-10°C to +50°C
Relative humidity	95% non-condensing
Max. motor current at the output MO710A / AF	for a 230 V AC motor, max. 10 A
Mains fuse (glass fuse on the circuit board)	10A slow-blow fuse for the motor, control system and connected lights
Terminating resistance of protection devices	8.2 kΩ ± 5% for protection devices with resistance measurement

