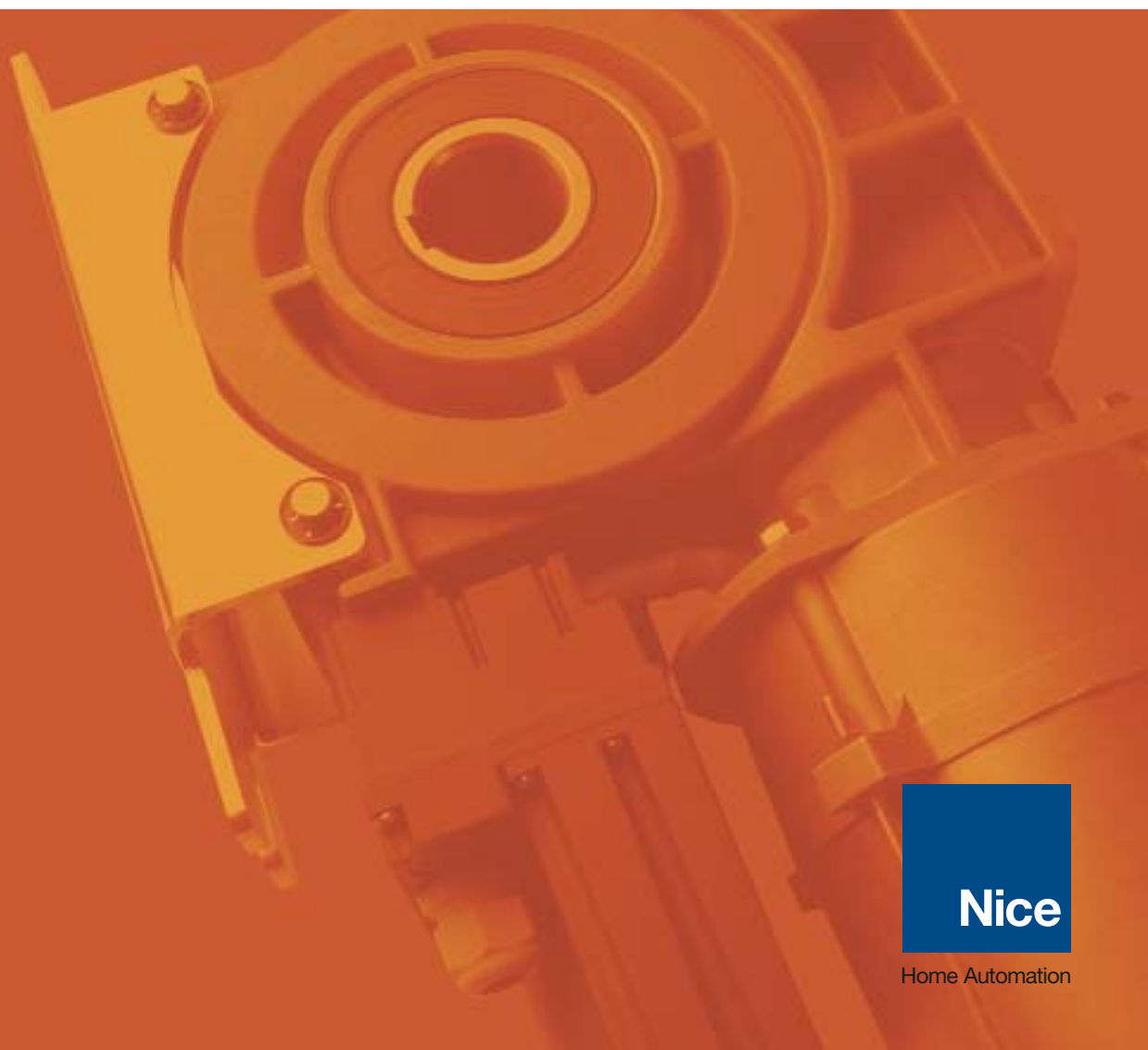


The Nice
Tom R

The complete
Nice range
of motors
for industrial
shutters



Nice

Home Automation

Tom

The new Nice range for industrial access closure systems

Easily installed and programmed motors that are extremely flexible thanks to continual implementation opportunity for made to measure solutions.



With Tom, Nice offers a full range of **motors for industrial sectional doors, roller shutters and high speed doors**: the advanced technology, the quality of the detail and the lasting and reliable running guarantee automation systems with safety requirements and performance characteristics in accordance with the latest European standards and directives.

Nice is the only make that allows you to offer integrated control systems for both residential and industrial buildings.

Tom H for fast doors

New range of gearmotors for industrial high speed doors available with different manual emergency release devices, also with electronic limit switches, to constantly offer the ideal solution on all types of automation. Possibility of power supply via inverter: the automation speed can be adjusted simply by setting the frequency as required, thus optimising the work load and system performance.

Tom R for roller shutters

Range of gearmotors for industrial roller shutters up to 2250 kg, available with different manual emergency release devices. Maximum safety thanks to the integrated anti-fall safety device and to the possibility of connecting safety devices such as optical or resistive sensitive edges.

Tom S for sectional doors

Range of gearmotors for industrial sectional doors up to 600 kg, versions available also with electronic limit switches and movement control by means of absolute encoder. Flexible technology thanks to the choice of three different manual emergency release devices: rope, crank or chain type.

Nice

Maximum safety

EN Tested products
and certified quality



More often than not even the most expert installers have difficulty in understanding all the new provisions of the **Machinery Directive** and European Standards regarding safety. For each type of system, the installer is obliged to perform different Inspections, checks and tests to ensure compliance with the standards, also providing comprehensive documentation of these procedures. Nice therefore provides a special service to help them complete all tasks required by the Machinery Directive. The new generation of Nice Products, also guarantees total safety.

How to make your automation safe

Discover the simplicity of safety with the new products to ensure total compliance with current standards: resistive and mechanical sensitive edges; positionable synchronised photocells; facilitated release system; obstacle detection and phototest to prevent the manoeuvre in the event of faults; instrument and software for measuring impact force; 24 V power supply and rechargeable batteries to enable operation of the motor also in the event of a power failure.

Consultancy service

To answer all your queries regarding safety standards:
Tel. **+39 0422 853838**

Safety, quality, reliability and durability are priorities for Nice. Every day, tests and inspections are carried out in the internal laboratory to increase the reliability of current products and create increasingly efficient new product generations. The Nice laboratory covers a surface area of 370 m² and houses leading-edge equipment and instrumentation, to enable totally autonomous certification of all products in the Nice range:

- **Semi-anechoic chamber**
- **Acoustic chamber**
- **Climatic chambers**
- **Saline mist**
- **Chambers for dust-tight tests**

Nice also performs additional tests useful for product developments, research and to guarantee constant benefits for the client.



En Tested

All Nice Products comply with the European Directives governing safety - EN Tested. Nice products can therefore be easily certified on site by installers.

EN 17025-
accredited
laboratory:



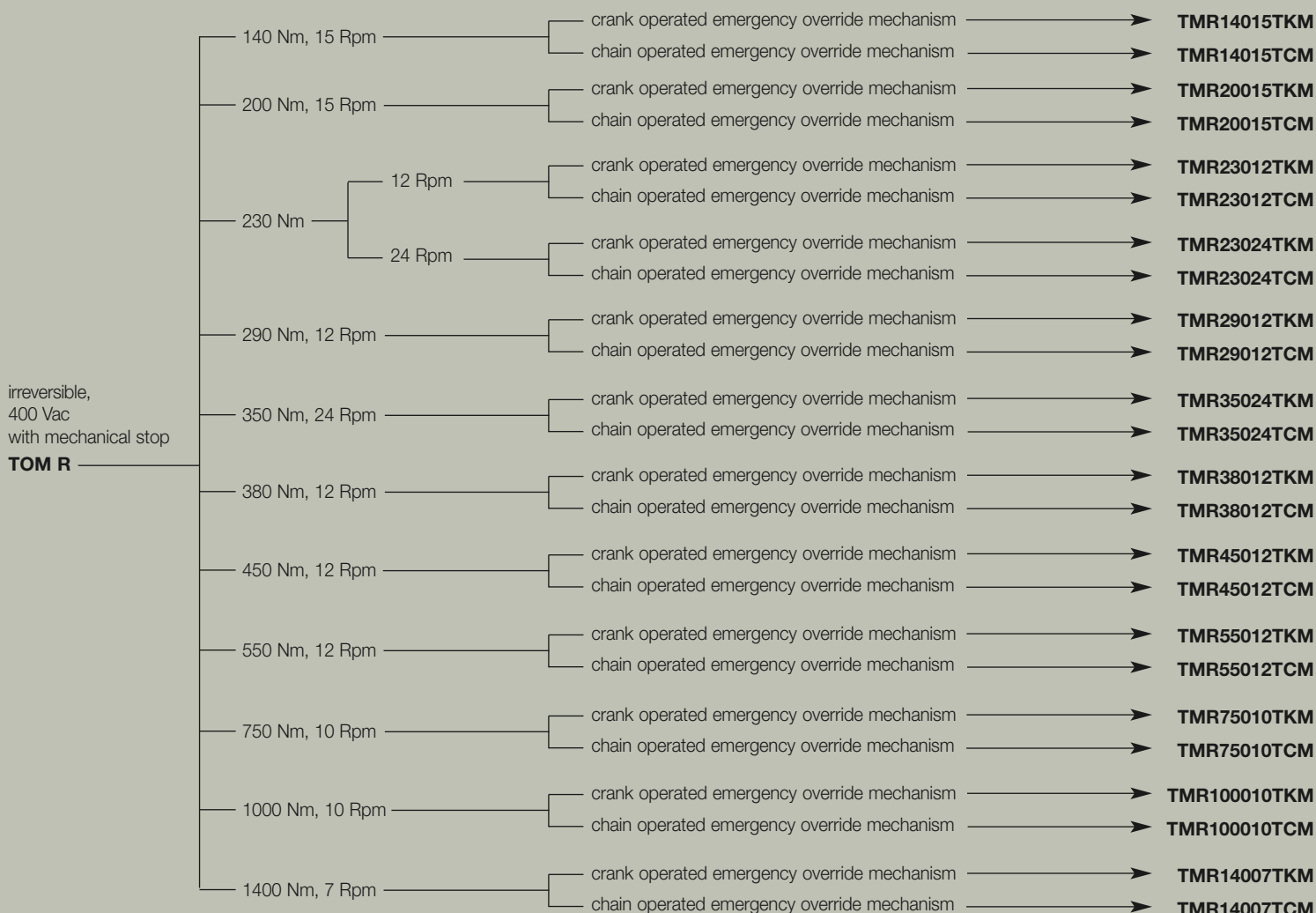
In accordance with Annex
V of directive 1999/5/EC,
Nice is certified
by a Notified Body:



Selection guide

Follow the arrow and choose the right product

Selection of motor according to Torque (Nm)

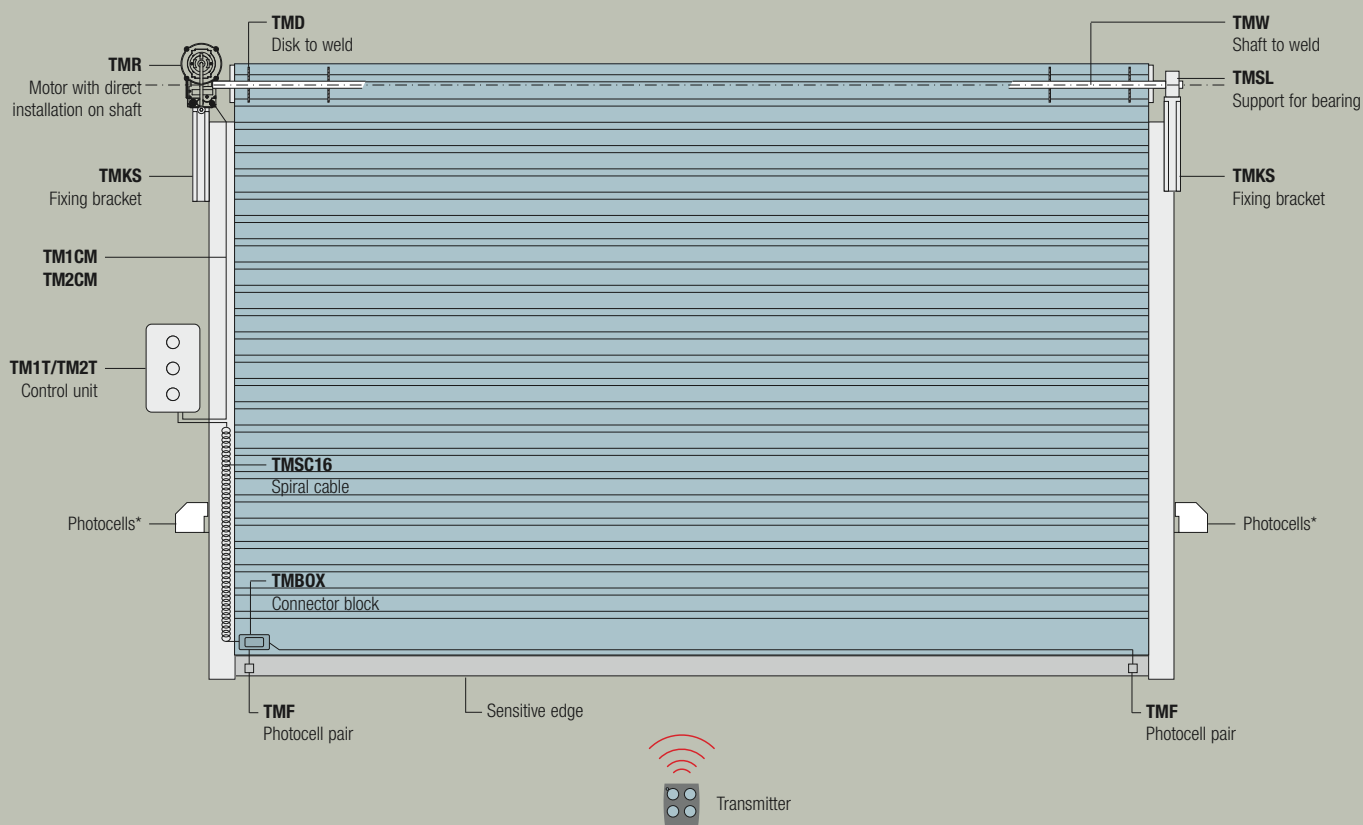


Selection of motor according to weight (kg)/shutter shaft

Torque	140 Nm	200 Nm	230 Nm	290 Nm	350 Nm	380 Nm	
Code	TMR14015TKM TMR14015TCM	TMR20015TKM TMR20015TCM	TMR23012TKM TMR23012TCM TMR23024TKM TMR23024TCM	TMR29012TKM TMR29012TCM	TMR35024TKM TMR35024TCM	TMR38012TKM TMR38012TCM	
Shaft DIN 2448 (mm)	101,6 x 3,6 108 x 3,6 133 x 4,0 159 x 4,5 177,8 x 5,0 193,7 x 5,4 219,1 x 5,9 244,5x 6,3 273 x 6,3 298,5 x 7,1 323,9 x 7,1	188 178 149 128 115 107 95 86 78 72 66	321 302 245 205 183 168 149 133 119 109 101	308 293 245 210 190 176 157 142 128 118 109	466 438 356 297 266 244 216 193 173 158 146	469 446 373 319 289 267 239 216 195 179 166	610 574 466 390 349 320 283 253 227 208 191

The values indicated in the table foresee a tolerance of 20% to account for normal friction and are calculated for roller shutters with 20 mm sections.

Installation layout



Approximate draft

*MOON series: **MOF/MOFO**
F210 series
 BF & F series: **BF/FE/FEP/FI**

Torque	450 Nm	550 Nm	750 Nm	1000 Nm	1400 Nm
Code	TMR45012TKM TMR45012TCM	TMR55012TKM TMR55012TCM	TMR75010TKM TMR75010TCM	TMR100010TKM TMR100010TCM	TMR14007TKM TMR14007TCM
101,6 x 3,6	722	883	1204	1605	2247
108 x 3,6	680	831	1133	1510	2114
133 x 4,0	552	674	920	1226	1717
159 x 4,5	462	564	769	1026	1436
177,8 x 5,0	413	505	688	917	1284
193,7 x 5,4	379	463	632	842	1179
219,1 x 5,9	335	409	558	744	1042
244,5x 6,3	300	367	500	667	934
273 x 6,3	269	329	448	597	836
298,5 x 7,1	246	301	410	546	765
323,9 x 7,1	227	277	378	504	705

The values indicated in the table foresee a tolerance of 20% to account for normal friction and are calculated for roller shutters with 20 mm sections.

Shaft DIN 2448 (mm)

For rolling doors weighing up to 2250 kg.

Irreversible electromechanical gearmotors for industrial roller shutters with mechanical stop and chain (C) or crank (K) operated emergency override mechanism and integrated anti-fall safety device.

Twentyfour versions available.

Lightweight, compact and powerful

Gearmotors for high-speed roller shutters. Torque up to 1400 Nm; speed up to 24 Rpm.

Maximum safety

Thanks to the integrated anti-fall safety device and to the possibility of connecting safety devices such as optical or resistive sensitive edges.

Integrated safety catch, independent of the rotation frequency and position.

Automation systems in accordance with the latest European technology and safety directives and standards, EN12453.

Simple installation

Tom can be fitted directly onto the shaft of the roller shutter (on shafts with Ø 30 and 40 mm). The simple connectors ease connections and installation and starting are particularly easy.

Work cycles extended to 60%

(longer operating time of the motor).

Flexible technology

Available with two different emergency override mechanisms: with crank or chain thereby offering the best possible solution for every type of automation system.

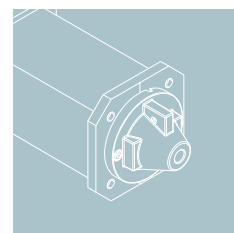
Simple, complete and reliable

separate **Mindy TM**, control unit with:

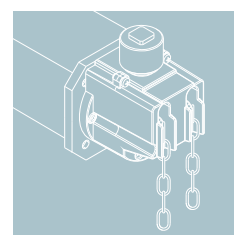
- mechanical stop management;
- possibility of connecting 8.2 kohm resistive and optical photocells and sensitive edges;
- hold-to-run and automatic radio or cable controls;
- possibility of expansion with additional cards.
- Also available with push-button panel.



Crank operated emergency override mechanism



Chain operated emergency override mechanism



Technical specifications	TMR	14015	20015	23012	23024	29012	35024	38012	45012	55012	75010	100010	14007	
Hole (mm)		30					40					55		
Torque (Nm)		140	200	230		290	350	380	450	550	750	1000	1400	
Speed (Rpm)		15		12	24	12	24	12			10		7	
Power absorbed (KW)		0,55	0,75		1		1,5	1,3	1,5			2,2	2,5	
Power (V/Hz)		3x230 V / 3x400 V 50 Hz												
Work cycle (ED)		S3-60%												
Power supply cable (n° x mm²)		5 x 1,5												
Shaft revs per limit switch rev		15 or 30			10 or 40									
Operating temperature (°c)		-5 ÷ +40												
Noisiness dB(A)		<70												
Protection level (IP)		54												

TMR14015 Irreversible three-phase motors 400 Vac, 140 Nm, 15 Rpm

Code	Description
TMR14015TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR14015TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR20015 Irreversible three-phase motors 400 Vac, 200 Nm, 15 Rpm

Code	Description
TMR20015TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR20015TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR23012 Irreversible three-phase motors 400 Vac, 230 Nm, 12 Rpm

Code	Description
TMR23012TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR23012TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR23024 Irreversible three-phase motors 400 Vac, 230 Nm, 24 Rpm

Code	Description
TMR23024TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR23024TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR29012 Irreversible three-phase motors 400 Vac, 290 Nm, 12 Rpm

Code	Description
TMR29012TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR29012TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR35024 Irreversible three-phase motors 400 Vac, 350 Nm, 24 Rpm

Code	Description
TMR35024TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR35024TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR38012 Irreversible three-phase motors 400 Vac, 380 Nm, 12 Rpm

Code	Description
TMR38012TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR38012TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR45012 Irreversible three-phase motors 400 Vac, 450 Nm, 12 Rpm

Code	Description
TMR45012TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR45012TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR55012 Irreversible three-phase motors 400 Vac, 550 Nm, 12 Rpm

Code	Description
TMR55012TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR55012TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR75010 Irreversible three-phase motors 400 Vac, 750 Nm, 10 Rpm

Code	Description
TMR75010TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR75010TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR100010 Irreversible three-phase motors 400 Vac, 1000 Nm, 10 Rpm

Code	Description
TMR100010TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR100010TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

TMR14007 Irreversible three-phase motors 400 Vac, 1400 Nm, 7 Rpm

Code	Description
TMR14007TKM	with 6 adjustable mechanical stops and crank operated emergency override mechanism, fixing plate included
TMR14007TCM	with 6 adjustable mechanical stops and chain operated emergency override mechanism, fixing plate included

Electronic accessories

Control units



Code	Description
TM1TPUL	standard control unit for opening and closing hold-to-run, expandable with additional cards. For 400 V three-phase motors. With control buttons



TM2TPUL	standard control unit for semi-automatic opening and hold-to-run closure. For 400 V three-phase motors. With control buttons
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Additional cards



Code	Description
TM1C1	additional card for TM1 series control units for semi-automatic opening and hold-to-run closure. For motors with mechanical stop
TM1C2	additional card for TM1 series control units for automatic closure with programmable time and the possibility of connecting resistive or optical sensitive edges and a pair of safety photocells
TM1C3*	additional card for TM1 series control units to manage the semaphoric signals in both directions, the photocell pair installed on gridded roller shutters close to the winding shaft and contact for the opening and closing position
TM1C3A*	additional card for TM1 series control units to manage the semaphoric signals in both directions, emergency stop light signal with short opening and intermediate opening movement for electronic limit switches
TM1C5*	additional card for TM1 series control units with function for services signalling
TM1C6	additional card for TM1 series control units with function for remote assistance via the Internet
TM1C7	additional card for TM1 series control units with function for management of loop detector
TMCEE	CEE connector with 1 m of cable for control units of TM1 and TM2 series

* To couple only with TM1C2

Connection cables



From the motor to control units equipped with connectors, for instant use. For motors with mechanical stop

Code	Description
TM1CM5	for TM1 series control units. Length 5 m
TM1CM7	for TM1 series control units. Length 7 m
TM1CM11	for TM1 series control units. Length 11 m
TM2CM5	for TM2 series control units. Length 5 m
TM2CM7	for TM2 series control units. Length 7 m
TM2CM11	for TM2 series control units. Length 11 m

Common accessories



Code	Description
TMSC16	5 core spiral cable with connector and extension from 0.8 to 1.6 m, supplied with cable clip and support. Necessary for the connection of the optical or resistive sensitive edge
TMBOX1	door fixed connection block to connect the sensitive edge and spiral cable. With hole for TMSC16 spiral cable
TMF	11.5 mm Ø photocell pair for optical sensitive edges, including adaptors from 11.5 to 22 mm and 7 m of cable. For distances up to 7 m (10.5 mm with 1 m of cable)
TMCH5	additional chain for motors with release chain, length 5 m
TMA40-25,4	adaptor to join motors with 40 mm hole to shafts with Ø 25.4 mm
TMA40-31,75	adaptor to join motors with 40 mm hole to shafts with Ø 31.75 mm

Shaft to weld



With key

Code	Description
TMW39530P56	Ø 30 mm, length 395 mm, with key 56 mm
TMW49530P120	Ø 30 mm, length 495 mm, with key 120 mm
TMW39540P70	Ø 40 mm, length 395 mm, with key 70 mm
TMW49540P120	Ø 40 mm, length 495 mm, with key 120 mm
TMW49555P120	Ø 55 mm, length 495 mm, with key 120 mm

Without key



Code	Description
TMW49530	Ø 30 mm, length 495 mm
TMW39540	Ø 40 mm, length 395 mm
TMW49555	Ø 55 mm, length 495 mm

Bearing



Code	Description
TMSL30	for shafts with Ø 30 mm
TMSL40	for shafts with Ø 40 mm
TMSL55	for shafts with Ø 55 mm

Steel collar



Code	Description
TMSR30	for shafts with Ø 30 mm
TMSR40	for shafts with Ø 40 mm

Console



Code	Description
TMKS300	maximum load 300 kg (445x460x60 mm)
TMKS530	maximum load 530 kg (520x550x65 mm)
TMKS1300	maximum load 1300 kg (290x480x59,5 mm)
TMKS2500	maximum load 2500 kg (685x650x59,5 mm)

Disks to weld

For shaft ø 30 mm

Code	Description
TMD9330	Ø 93 x 6 mm; for tube Ø101,6 x 3,6 mm
TMD9930	Ø 99 x 6 mm; for tube Ø 108 x 3,6 mm
TMD12430	Ø 124 x 6 mm; for tube Ø 133 x 4 mm
TMD12930	Ø 129,8 x 6 mm; for tube Ø 139,7 x 4,5 mm
TMD14930	Ø 149,5 x 6 mm; for tube Ø 159 x 4,5 mm
TMD15530	Ø 155 x 6 mm; for tube Ø 165 x 4,5 mm
TMD16630	Ø 166,5 x 6 mm; for tube Ø 178 x 5 mm
TMD18130	Ø 181 x 8 mm; for tube Ø 193,7 x 5,4 mm
TMD20530	Ø 205,5 x 8 mm; for tube Ø 219,1 x 5,9 mm
TMD21630	Ø 216 x 8 mm; for tube Ø 229 x 6,5 mm



For shaft ø 40 mm

Code	Description
TMD9340	Ø 93 x 6 mm; for tube Ø 101,6 x 3,6 mm
TMD9940	Ø 99 x 6 mm; for tube Ø 108 x 3,6 mm
TMD12440	Ø 124 x 6 mm; pfor tube Ø 133 x 4 mm
TMD12940	Ø 129,8 x 6 mm; for tube Ø 139,7 x 4,5 mm
TMD14940	Ø 149,5 x 6 mm; for tube Ø 159 x 4,5 mm
TMD15540	Ø 155 x 6 mm; for tube Ø 165 x 4,5 mm
TMD16640	Ø 166,5 x 6 mm; for tube Ø 178 x 5 mm
TMD18140	Ø 181 x 8 mm; for tube Ø 193,7 x 5,4 mm
TMD20540	Ø 205,5 x 8 mm; for tube Ø 219,1 x 5,9 mm
TMD21640	Ø 216 x 8 mm; for tube Ø 229 x 6,5 mm

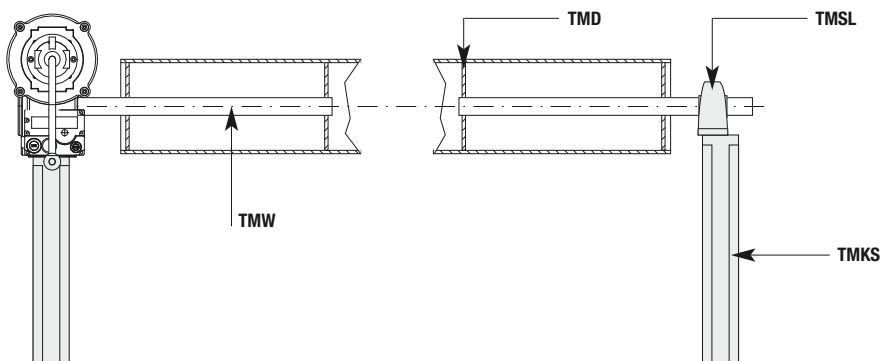


For shaft ø 55 mm

Code	Description
TMD14955	Ø 149,5 x 6 mm; for tube Ø 159 x 4,5 mm
TMD15555	Ø 155 x 6 mm; for tube Ø 165 x 4,5 mm
TMD16655	Ø 166,5 x 6 mm; for tube Ø 178 x 5 mm
TMD18155	Ø 181 x 8 mm; for tube Ø 193,7 x 5,4 mm
TMD20555	Ø 205,5 x 8 mm; for tube Ø 219,1 x 5,9 mm
TMD21655	Ø 216 x 8 mm; for tube Ø 229 x 6,5 mm

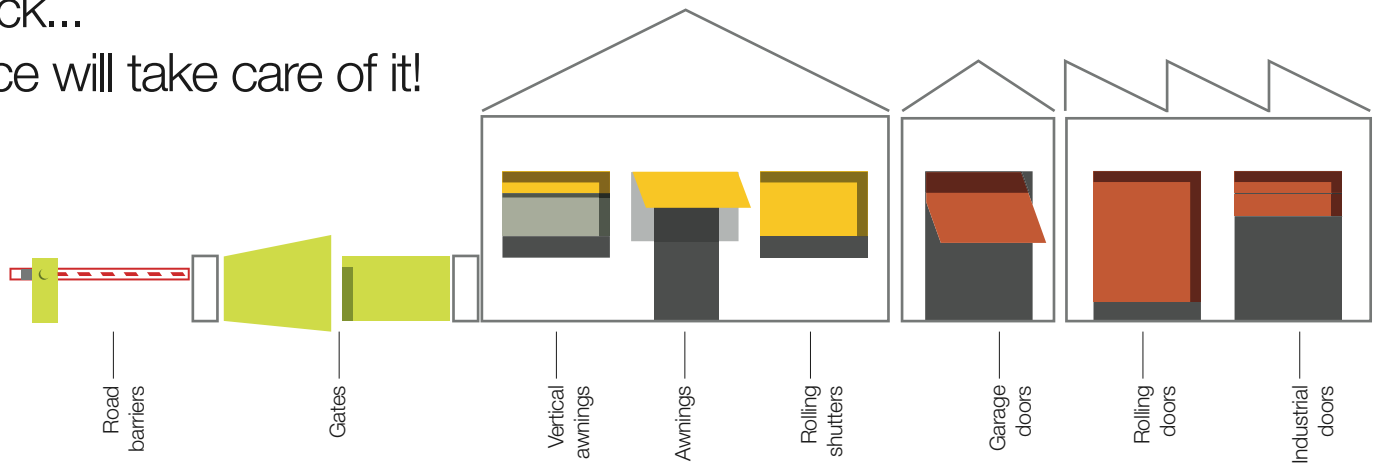


Technical drawing



Click...

Nice will take care of it!



Control systems



One

Flo, Flor

Very

NiceWay
Modular radio control system

Headquarters

Nice SpA

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