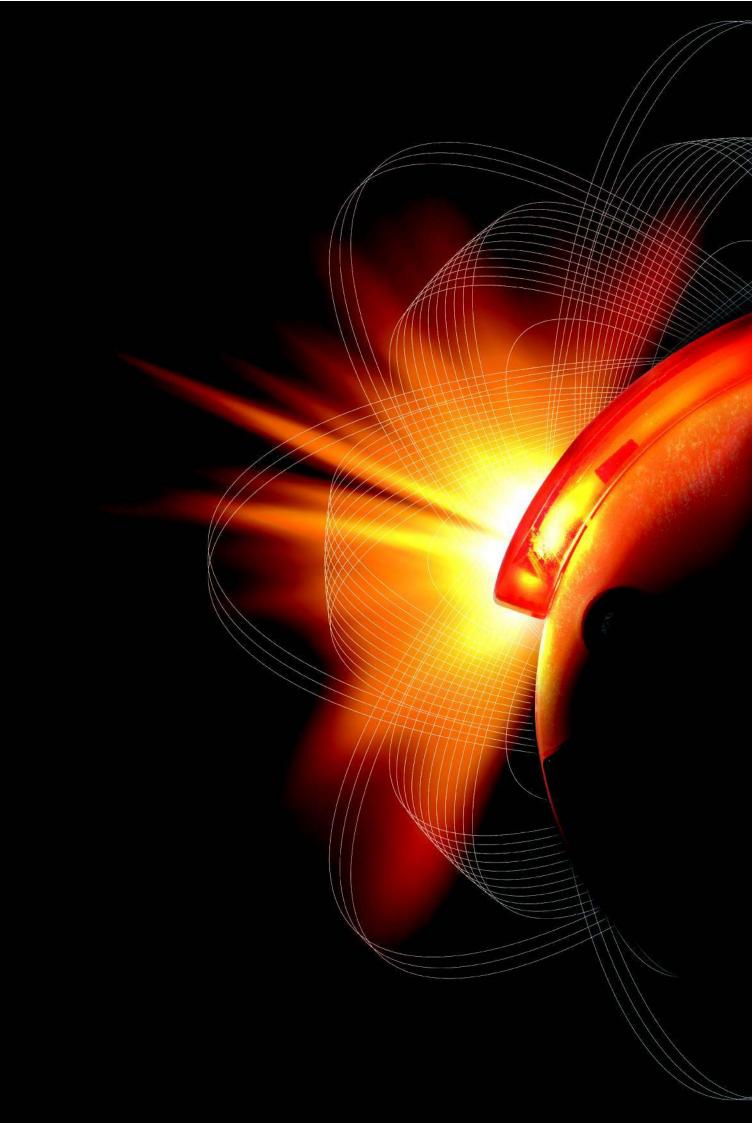


INNOVATION FOR YOUR LIFE



Systems | Automation Awning and Roller Shutters







INNOVATION FOR YOUR LIFE

Nortus Italy is born as a result of latest technologies seamlessly integrated with inspiring Italian design.

A long and reputable international experience in the field of electrical and automation technology is completed with the special attention and care in the choice of shapes and materials.

The Mission of Nortus Italy, as nicely summarized in its motto "Innovation for Your Life", is to develop customer-friendly, simple to use, reliable and clever products through innovative technological evolution and careful attention to design.

The constant exchange of ideas and information between customers and Nortus team is a critical tool for developing standards and tailored solutions to meet the ever-increasing market demand in order to ensure the highest quality and reliability of our products.







RELIABILITY' GUARANTEE

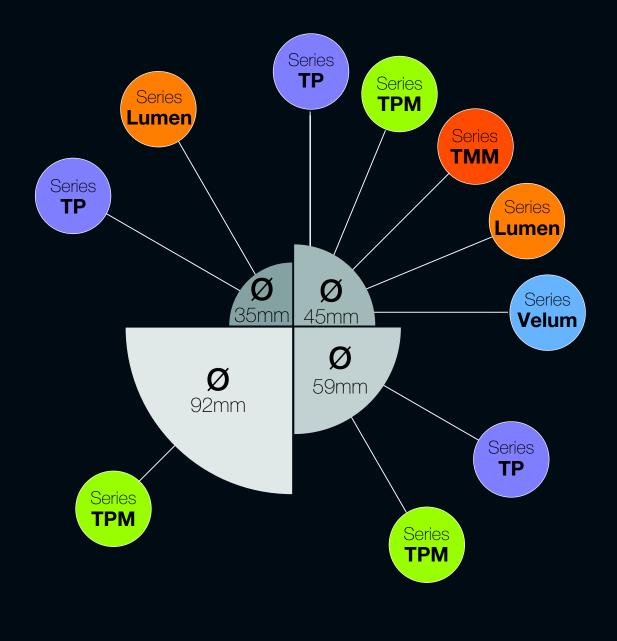
We believe in our work and in our product.

All business decisions are based on our ongoing assessments of the quality of our products, people and environment. Nortus continues to focus on improving its products to ensure the reliability and quality based on our philosophy.

Nortus products' quality is recognized and assured by the certifications of ISO 9001, CE, TUV and DNV.

A real and tangible quality and benefit to our customers.









THE RANGE OF NORTUS

TUBULAR MOTORS

Ø	Series TP	motor with electro-mechanical position limiter	18
35mm	Series LUMEN	motor with electronic position limiter and build-in RF receiver	20
	Series TP	motor with electro-mechanical position limiter	22
~	Series TPM	motor with electro-mechanical position limiter and manual-override mechanism	24
Ø 45mm	Series TMM	motor with electro-mechanical position limiter, build-in RF receiver and manual-override mechanism	26
TOTTIT	Series LUMEN	motor with electronic position limiter, build-in RF receiver and obstacle detection for roller shutter application	28
	Series VELUM	motor with electronic position limiter and build-in RF receiver, upper position detection and self-tensioning function for box-type awning	30
Ø	Series TP	motor with electro-mechanical position limiter	32
59mm	Series TPM	motor with electro-mechanical position limiter and manual-override mechanism	34
Ø 92mm	Series TPM	motor with electro-mechanical position limiter and manual-override mechanism	36
0211111			

CONTROLS

DOMO M	interposing Relay, Group control N+1 motor	38
DOMO C	868MHz RF wireless control relay for TP and TPM series	40
DOMO C+	433MHz RF wireless control relay with dry contact for TP and TPM series	42
DOMO	868MHz RF wireless controller	44
DOMO T	434MHz RF wireless controller	46

CENTRAL WEATHER

VENTUS	wind and/or rain sensor for TP and TPM series	48
VENTUSOL	sun, wind and/or rain sensor for TP and TPM series	50
SENSUS	868MHz RF wireless wind, rain, sun sensor for Velum and Lumen series	52

ACCESSORIES

ACCESSORIES full set accessory for end applications

54

SELECTION GUIDE THE IDEAL MOTOR

Tubular motor for roller shutters

Here are some guidelines for the correct sizing of Nortus tubular motors.

Information needed for a correct calculation are:

a) shutter' weight, expressed in Kg

b) roller tube diameter, expressed in mm

To know the weight of the shutter is necessary to multiply its size (width x height) for the specific weight of material used:

SURFACE x WEIGHT PER SM = WEIGHT OF SHUTTER

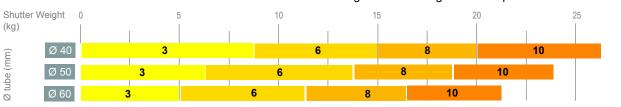
Average weights indicative per Square Meter shutter *

Material	kg/m²
Aluminum with high density polyurethane foam	8
Aluminum with polyurethane foam	5
Extruded aluminum	9
PVC	6.5
Steel with polyurethane foam	10
Steel with high density polyurethane foam	11
Wood	10.5

* Data given in the above Table is for reference only. Please refer to the technical specifications from the local Nortus salesman.

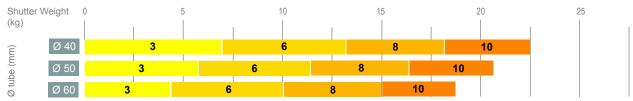
The following Table below shows the ideal torque required according to the diameter of roller tube and weight of roller shutter:

Series Ø 35 mm

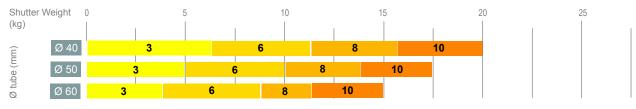


Shutter slats with a maximum thickness of 9mm and maximum height 40mm - Height shutter up to 1.5m.

Shutter slats with a maximum thickness of 9mm and maximum height 40mm - Height shutter from 1.5 m to 2.5m.

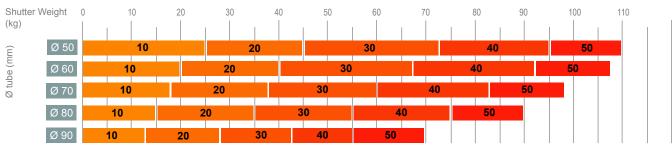


Shutter slats with a maximum thickness of 9mm and maximum height 40mm - Height shutter from 2.5 m to 3.5m.



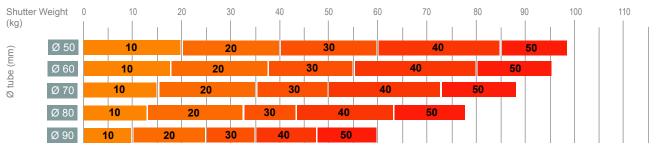


Series Ø45 mm

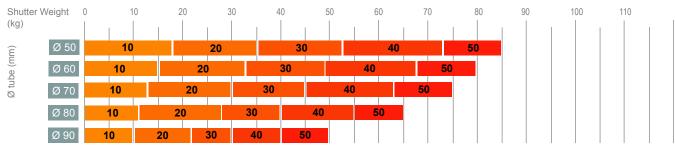


Shutter slats with a maximum thickness of 14mm and maximum height 55mm - Height shutter up to 1.5m.

Shutter slats with a maximum thickness of 14mm and maximum height 55mm - Height shutter from 1.5m to 2.5m.

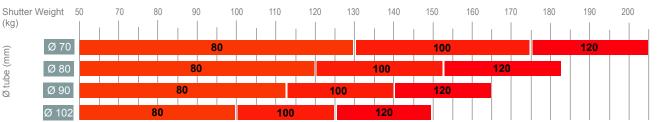


Shutter slats with a maximum thickness of 14mm and maximum height 55mm - Height shutter from 2.5m to 3.5m.



Serie Ø 59 mm

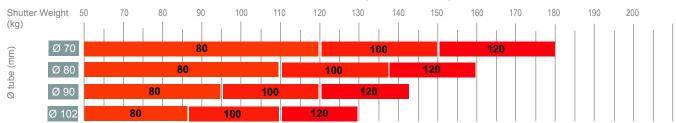
Shutter slats with a maximum thickness of 14mm and maximum height 55mm - Height shutter up to 1.5m.



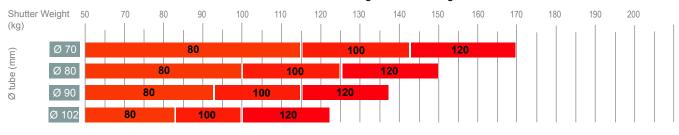


Series Ø 59 mm

Shutter slats with a maximum thickness of 14mm and maximum height 55mm - Height shutter from 1.5m to 2.5m.

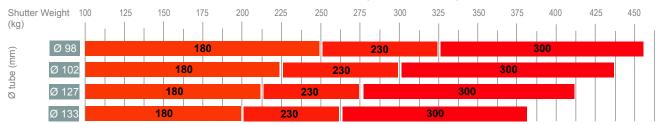


Shutter slats with a maximum thickness of 14mm and maximum height 55mm - Height shutter from 2.5m to 3.5m.

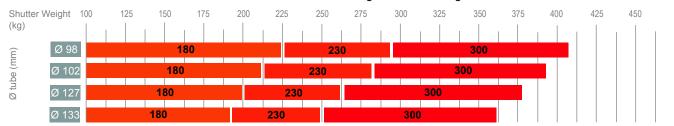


Series Ø 92 mm

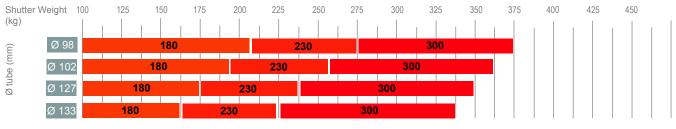
Shutter slats with a maximum thickness of 14mm and maximum height 100mm - Height shutter up to 2m.



Shutter slats with a maximum thickness of 14mm and maximum height 100mm - Height shutter from 2m to 3m.

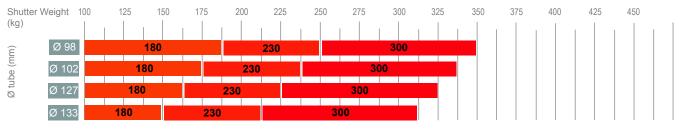






Shutter slats with a maximum thickness of 14mm and maximum height 100mm - Height shutter from 3m to 4m.

Shutter slats with a maximum thickness of 14mm and maximum height 100mm - Height shutter from 4m to 5m.



Tubular motor for awning

Here are some guidelines for the correct sizing of Nortus tubular motors. Information needed for a correct calculation are:

a) diameter of the roller tube (mm)

b) number of arms operating the awning

c) arm projection (m)

Taking the roller diameter of the roller, we proceed by intersecting, in the table below, the values of the projection arm with the number of arms. The intersection thus obtained indicates the ideal torque (Nm) for the Nortus engine:

The following table shows the ideal torque required according to the diameter of the roller tube, the number of arms and the arm projection.

Diameter of the roller (mm)				5	0					63	/70						78						85		
Arm projection	(m)	1,5	2	2,5	3	4	5	1,5	2	2,5	3	4	5	1,5	2	2,5	3	4	5	1,5	2	2,5	3	4	5
	2	20	20	20	30	30	50	20	20	30	30	40	50	20	30	30	30	40	80	40	50	80	80	80	100
Number of owned	4	20	20	30	40	40	*	20	30	30	40	50	80	30	40	40	40	50	80	40	50	80	100	100	120
Number of arms	6	20	30	40	50	*	*	30	40	50	50	80	100	40	40	50	80	100	120	50	80	100	120	*	*
	8	30	50	*	*	*	*	50	50	80	80	*	*	80	80	80	80	120	*	*	*	*	*	*	*

Diameter motor 45 mm

Diameter motor 60 mm

The selection table is indicative only.

For correct sizing of motors we recommend, please contact your local Nortus salesman.

GUIDE TO CHOOSING THE IDEAL MOTOR

Choosing the suitable motor is not just a matter of identifying the correct power in relation to the characteristics of roller shutter or awning. It is also essential to select the solution best suited to the functionality and user requirements. The range of Nortus solutions varies based on functional and technical peculiarities, in order to satisfy all possible applications, combining rationality of easy installation.



The limiter is one of key components in determining the maximum displacement of the device.



ELECTRO-MECHANICAL LIMITER

Adjust both set of screws using the regulator supplied with the motor to determine the two limiters.



ELECTRONIC LIMITER

Both limiters can be set using the pair of push buttons (push button version) on the motor head or radio transmitter.



UPPER IIMIT DETECTION

The Velum Series for box type awnings detects the upper end of travel automatically after initial determination of the lower limiter and after each normal shutting operation.



In term of revolutions per minutes (rpm), the actual speed depends on the load and direction of rotation.



SPEED FROM 9 TO 12 RPM

In this configuration, the engine makes 9 or 12 rounds per minute roller furling. Prerogative of motors with high torque (12 rpm to 9 rpm and 50Nm engines for engines with higher torque to 80Nm).



SPEED 17 RPM

Feature is ideal for all standard applications and not too heavy blinds or curtains of medium size.



SPEED 30 RPM

For shutters of modest size and limited weight, it may be interesting to increase the speed for faster opening and closing.



The wide range of motor design copes with different types of control, such as traditional wired connection, RF remote control and central group control.



SWITCH CONTROL

All standard motors of series **TP** and **TPM** can be controlled by means of a simple manual limit position switch.



The centralized control characteristics permit: Enhanced security for end users by means of voltage-free contacts.

433,92 MHz RADIO CONTROL

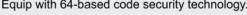
Equip with rolling code security technology.

12





868,35 MHz RADIO CONTROL Equip with 64-based code security technology.





MANAGEMENT WIRELESS 868,35 MHz

blackout using a special accessory auction.

Prerogative of the weather station Sensus, allows the engine management system coupled to it in total autonomy and without any electrical connection.

SPECIAL FUNCTIONS

The evolution technology applied to end applications for users required enhanced security for the home or workplace.



The TPM and TMM Series incorporates a mechanical device that allows manual operation of the system

MANUAL OVERRIDE

OBSTACLE DETECTION

LUMEN is equipped with an obstacle detection function for roller shutter application. Upon detection of an obstacle during the shutting operation, it stops and raises the roller shutter for 4 seconds.



INTERMEDIATE POINTS

The intermediate position between the open and closed positions may be set and changed by the user at any time.

CHOICE OF MOTOR **DEPENDING ON THE** APPLICATION TO AUTOMATE

For each series of product, are suggested (top right) the possible applications for which the engine has been designed:



SHUTTER

Classical application in a variety of shapes, sizes and weights.



BLOCK

The exterior version, sometimes small.



SCREEN

Vertical towel, complete with box and side rails, usually used to obscure, or adjust the brightness.



ROLLER BLIND

Vertical cloth, usually used to obscure, or adjust the brightness.









Awnings



VERTICAL BLIND

Darkening outdoor, made by two fixed arms that accompany the ascent and the descent of the curtain.

TENT FOR ARMS

Darkening outdoor, made by two or more articulated arms that accompany the ascent and the descent of the curtain.

AWNINGS

Identical to the tent-arm type of building, is different for the dumper to death.



SHUTTER

Shutter large and / or damper commercial stores and / or garage.

WHY CHOOSE NORTUS ELECTRONIC MOTORS LUMEN AND VELUM ?



EASY FOR INSTALLATION

With built-in radio receiver and electronic position controller, all configuration can be completed with remote control.

CONVENIENCE

Preferred-position – an intermediate position between the open-position and the closed-position, which can be freely set and changed by user.

QUICK POSITION SETUP

Instead of pressing button on the motor head (version with limit switch button), setting of limit is done directly by using radio transmitter. The setting can be stored quickly when the desired position is reached.

EXPANDABILITY

Every LUMEN and VELUM is capable of pairing with 27 remotes and 3 sensors.

SAFETY

Compliance with European Directives.

INTELLIGENCE

Both LUMEN and VELUM are equipped with an anti-jamming detection function to prevent damage. LUMEN is also equipped with an obstacle detection function for roller shutter application. Upon detect an obstacle during the closing operation, it stops, and raises the roller shutter for 4 seconds.

In order to ensure the accuracy of obstacle detection, LUMEN is equipped with a built-in learning function to determine an optimum parameter to cover difference loads and friction from different roller shutters. It is also capable of performing the obstacle detection function throughout the useable life of the system.

All this using the standard accessories (adapter) at no additional charge!



EASY, PRACTICAL FOR INSTALLATION IN 60 SECONDS

Choose LUMEN and VELUM means offering reliable solutions, practical, technologically innovative and safe ... but not only! Compared to conventional electromechanical actuators, it allows installation in less than a minute!

Quick Installation of LUMEN and VELUM.

Initial preparation for first time installation – Power down the motor and rest for at least 5 seconds then power it on again to entry pairing mode. The motor will rotate back and forth to acknowledge activation of the pairing mode.

PAIRING REMOTE



Press and hold "UP" and "DOWN" buttons simultaneously at least 5 seconds. The LED on remote will flash for 10 seconds. Motor rotates back and forth to confirm the pairing is successful.

REVERSE ROTATION



Press and hold "UP", "STOP" and "DOWN" buttons simultaneously at least 5 seconds. The LED on remote will flash twice. The motor will rotate back and forth to confirm successful change in rotation.

3 SETTING UPPER LIMIT



Press "UP" button to drive the application to upper limit;



Then press and hold the "UP" and "Stop" button simultaneously at least 5 seconds. The LED on remote will flash twice. The motor will rotate back and forth to confirm the open-position setting is successful.

SETTING LOWER LIMIT



Press "DOWN" button to drive the application to lower limit;



Then press and hold the "DOWN" and "Stop" button simultaneously at least 5 seconds. The LED on remote will flash twice. The motor will rotate back and forth to confirm the open-position setting is successful.

5 LEARNING



For LUMEN: Every setting for both limits, it will drive the application to travel one cycle to determine an optimum setting for obstacle detection.

For VELUM for box-type awning: Once complete the setting of lower limit, it will drive the awning to find close limit automatically.

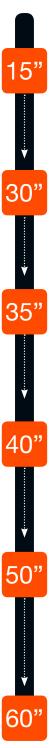
6 SETTING PREFERRED POSITION

Drive application to any po-

sition between both limits.

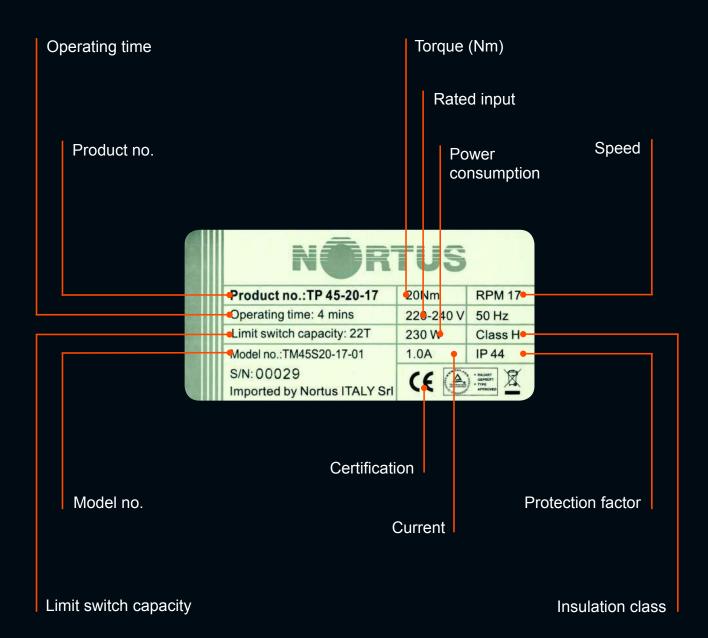


Press and hold the "Stop" button at least 5 seconds. The LED on remote will flash twice. The motor rotate back and forth to confirm the prefer position setting is successful.



GUIDE TO READING THE NORTUS NAMEPLATE







Product no.:



Indicates critical motor information. Read from left to right, it defines:

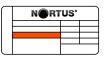
- Motor series
- Motor diameter (mm)
- Rated torque (Nm)
- Rated speed (rpm).

Operating time:

\square	NÕRT	'US'	

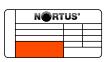
Minimum continuous operation time.

Limit switch capacity:



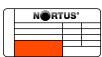
Maximum no of turns of limiter.

Model no.:



Model number certification.

Serial no.:



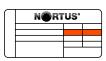
For tracing the manufacturing history.

Torque (Nm):

\bigcap	NÕRT	'US'		F
l)	

Rated torque.

Rated input:

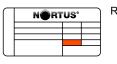


Rated voltage and line frequency.

Power Consumption (W):



Corrent (A):



Rated current.

Speed (rpm):



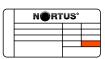
Rated speed.

Insulation class:



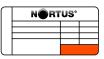
Indicates the insulation class of motor.

IP44 protection factor:



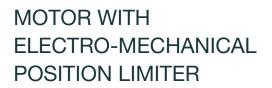
Indicates the degree of motor protection the ingress of solids and powders and liquid.

Certifications:



The product is certified by TUV and conforms to European Directives (EC).

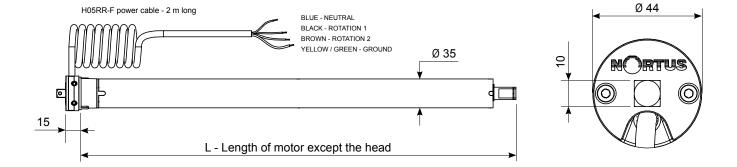




The ideal solution for roller shutters, screens and blinds.

In the traditional version with mechanical limit switch, the TP 35 is the ideal solution for the operation of blinds installed on minieased frames, interior or exterior blinds.

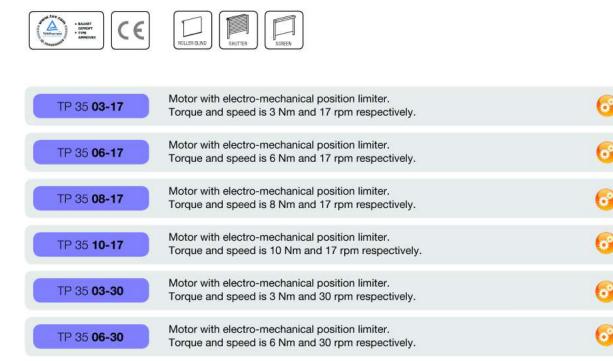
Extremely quiet, the TP 35 series is characterized by a wide range of movement that easy adjustment of up and down limit positions at different speeds.



Degree of protection	Rated input (V – 50/60Hz)	Operating temperature (°C)	Operating time (min)	Limit switch capacity
IP 44	230 AC	-10 ÷ +50	4	54

Product No	TP 35 03-17	TP 35 06-17	TP 35 08-17	TP 35 10-17	TP 35 03-30	TP 35 06-30	
L - Motor length (mm)		525		545	525		
Net weight (kg)	1,6		1,7	1,8	1,6	1,7	
Current (A)	0,43	0,51	0,63	0,72	0,68	0,72	
Power consumption (W)	110	120	141	161	150	161	
Torque (Nm)	3	6	8	10	3	6	
Speed (rpm)	17	17	17	17	30	30	
* Theoretical Loading capacity (kg)	6	12	14	20	6	12	
* roll diameter 40 mm				·	· · · ·		





RULLER ADAPTER CODE	RULLER ADAPTER CODE
Ø 40 mm thickness 0,6 - 0,8 mm	Ø 40 mm thickness 1,5 mm
40 mm DA-35-01-A1	Ø 43 mm thickness 1,5 mm
Ø 46 mm thickness 2 mm	

Ø 35mm Series LUMEN

BODELING TURES TER

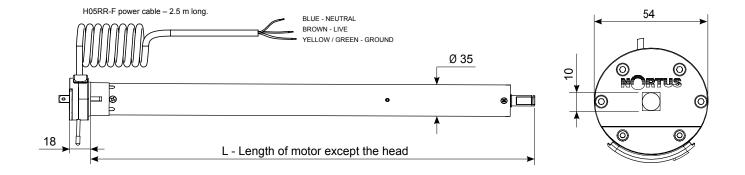
Castlered D

ELECTRONIC TUBULAR MOTOR WITH ELECTRONIC LIMIT POSITION SWITCH AND BUILT-IN RF RECEIVER 868,35 MHZ.

This electronic version is equipped with obstacle detection system and preferred position.

This LUMEN Series is developed with an intelligent obstacle detection system with self-learning technology.

In fact, thanks to electronic limit position switch and built-in RF receiver permitting the limit positions to be set by remote control, in a simple and intuitive way. Setting feedback is provided by audible and visual signals.



Degree of protection	Rated input (V - 50/60 Hz)	Operating temperature (°C)	Operating time (min)	Limit switch capacity	L - Motor length (mm)
IP 44	230 AC	-10 ÷ +50	4	∞	681

Product No	LUMEN 35 06-17	LUMEN 35 10-17	LUMEN 35 03-30	LUMEN 35 06-30				
Net weight (kg)	1,8	2	0,9	0,9				
Current (A)	0,51	0,72	0,68	0,72				
Power consumption (W)	120	161	150	161				
Torque (Nm)	6	10	3	6				
Speed (rpm)	1	7	30					
* Theoretical Loading capacity (kg)	12	20	12					
* roll diameter 40 mm								



	ROLLER BLAND SHUTTER SCREW	
LUMEN 35 06-17	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 6 Nm and 17 rpm respectively.	co 💋 😨 🚱 🖨
LUMEN 35 10-17	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 10 Nm and 17 rpm respectively.	In the test of tes
LUMEN 35 03-30	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 3 Nm and 30 rpm respectively.	le 🚱 😒 📾
LUMEN 35 06-30	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 6 Nm and 30 rpm respectively.	额 😵 🧟 🖨 🗐

10

20

ADAPTERS FOR ROLLER SHUTTER

RULLER ADAPTER CODE	RULLER ADAPTER CODE
Ø 40 mm thickness 0,6 - 0,8 mm	Ø 40 mm thickness 1,5 mm
40 mm DA-35-01-A1	Ø 43 mm DA-35-03-A1
Ø 46 mm	

Ø 45mm Series **TP**

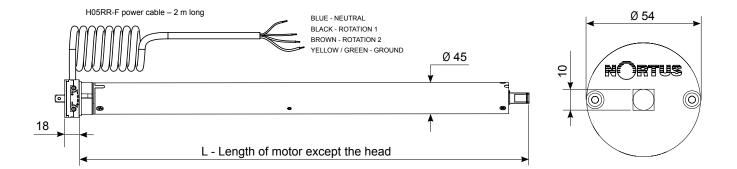


ELECTROMECHANICAL TUBULAR MOTOR WITH MANUAL LIMIT POSITION SWITCH.

The Classic solution for roller shutters and awnings.

The TP 45 series is used for all types of roller shutters and awnings with high quality and durability.

Practical and robust, the TP 45 series is characterized by a wide range of movement that easy adjustment of up and down limit positions and different speeds.



Degree of protection	Rated input	Operating	Operating time	Limit switch
	(V - 50/60 Hz)	temperature (°C)	(min)	capacity
IP 44	230 AC	-10 ÷ +50	4	23

Product No	TP 45 10-17	TP 45 20-17	TP 45 30-17	TP 45 40-17	TP 45 50-12	TP 45 10-30
L - Motor length (mm)	510	55	50	570	550	
Net weight (kg)	2,5	2,8	3	3,2	3	2,8
Current (A)	0,72	0,72 1 1,30		1,30		1
Power consumption (W)	161	230	300		230	
Torque (Nm)	10	20	30	40 50		10
Speed (rpm)	17	17	17	17	12	30
* Theoretical Loading capacity (kg)	19	38	58	76	96	19
* roll diameter 60 mm						





TP 45 10-17	Motor with electro-mechanical position limiter. Torque and speed is 10 Nm and 17 rpm respectively.	69 69 69
TP 45 20-17	Motor with electro-mechanical position limiter. Torque and speed is 20 Nm and 17 rpm respectively.	69 69 69
TP 45 30-17	Motor with electro-mechanical position limiter. Torque and speed is 30 Nm and 17 rpm respectively.	3 63
TP 45 40-17	Motor with electro-mechanical position limiter. Torque and speed is 40 Nm and 17 rpm respectively.	69 69 69
TP 45 50-12	Motor with electro-mechanical position limiter. Torque and speed is 50 Nm and 12 rpm respectively.	🚱 🕢 🎯
TP 45 10-30	Motor with electro-mechanical position limiter. Torque and speed is 10 Nm and 30 rpm respectively.	og 📀 📀

RULLER ADAPTER CODE	RULLER ADAPTER CODE
Ø 50 mm DA-45-50-A2	ZF 54 mm thickness 1 mm
Ø 60 mm	50 mm Correction DA-45-50-A1
60 mm DA-45-05-A1	60 mm Office of the second sec
BONFANTI 60 mm thickness 0,5 mm thickness 0,5 mm thickness 0,5 mm	70 mm thickness 1,5 mm
Ø 70 mm	Ø 78 mm Ø 80 mm <i>hickness 1,5 mm</i>

Ø 45mm Series **TPM**

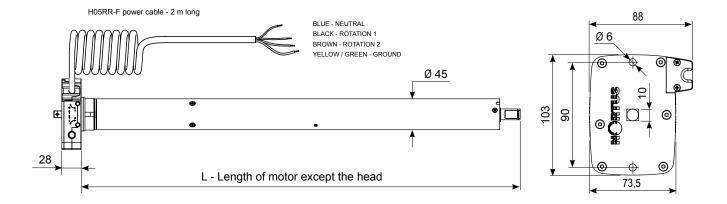


ELECTROMECHANICAL TUBULAR MOTOR WITH POSITION LIMITER AND MANUAL-OVERRIDE MECHANISM.

The Ideal solution for awnings.

TPM Series 45 is the traditional solution for all awnings. Extremely robust die-cast motor head equipped with weather sensors.

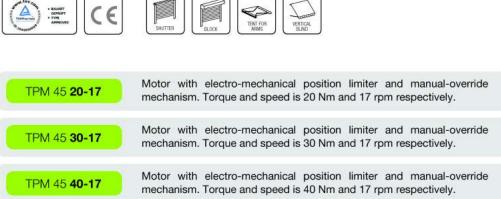
The motor, equipped with a mechanical limit switch, permits fast and accurate adjustment of the limit positions.



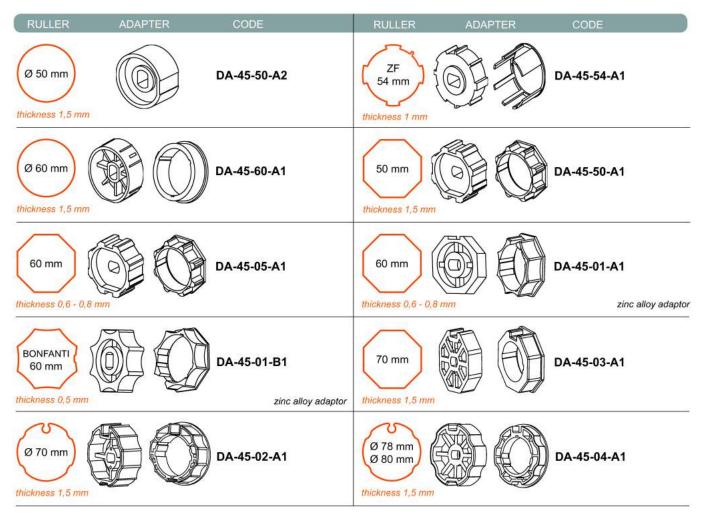
Degree of protection	Rated input (V - 50/60 Hz)	Operating temperature (°C)	Operating time (min)	Limit switch capacity
IP 44	230 AC	-10 ÷ +50	4	23

Product No	TPM 45 20-17	TPM 45 30-17	TPM 45 40-17	TPM 45 50-12		
L - Motor length (mm)	63	31	6	51		
Net weight (kg)	3,6	3,8	4	3,8		
Current (A)	1		1,3			
Power consumption (W)	230	300				
Torque (Nm)	20	30 40		50		
Speed (rpm)		17		12		
* Theoretical Loading capacity (kg)	45	58	76	96		
* roll diameter 60 mm						





IDM 45 50 17	otor with electro-mechanical position limiter and manual-override echanism. Torque and speed is 50 Nm and 12 rpm respectively.	6		Ø	•
--------------	--	---	--	---	---



Ø 45mm Series **TMM**

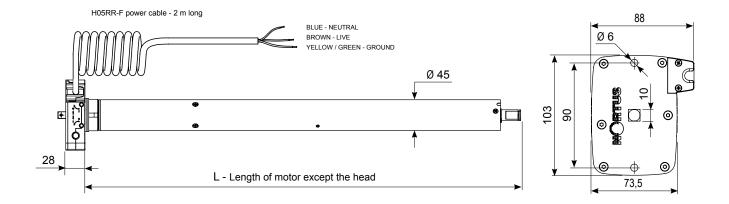


ELECTROMECHANICAL TUBULAR MOTOR WITH MANUAL OVERRIDE SYSTEM, MANUAL LIMIT POSITION SWITCH AND BUILT-IN RF RECEIVER 868,35 MHZ.

Reliable manual override system combined with manual limit position switch. Easy installation. Designed to be exceptionally silent.

The TMM Series makes awning management so easy! Fully compatible with Nortus controlling system; TMM also incorporates encoder technology for accurate and durable settings.

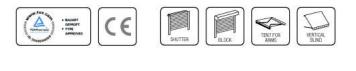
The TMM Series can be combined with a climatic sensor – Sensus for awning control.



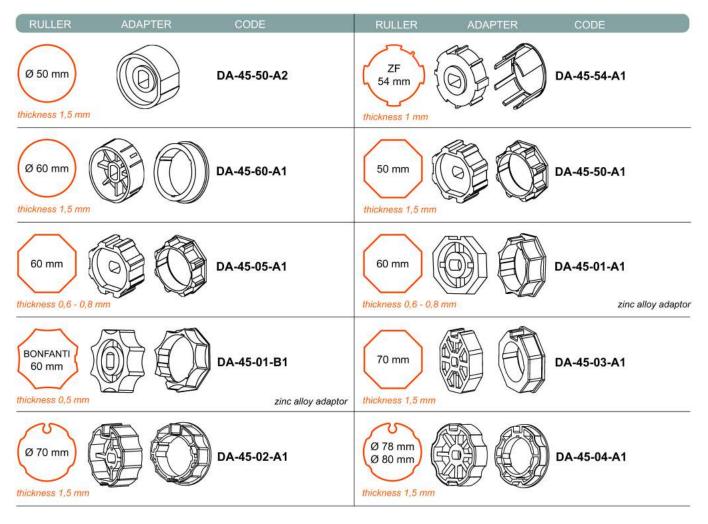
Degree of protection	Rated input	Operating	Operating time	Limit switch
	(V - 50/60Hz)	temperature (°C)	(min)	capacity
IP 44	230 AC	-10 ÷ +50	4	23

Product No	TMM 45 20-17	TMM 45 30-17	TMM 45 40-17	TMM 45 50-12
L - Motor length (mm)	83	31	85	1
Net weight (kg)	4,1	4,3	4,5	4,3
Current (A)	1	1,3		
Power consumption (W)	230	300		
Torque (Nm)	20	30 40		50
Speed (rpm)		17		12
* Theoretical Loading capacity (kg)	45	58	76	96
* roll diameter 60 mm				



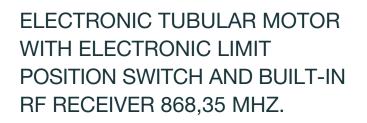


TMM 45 20-17	Motor with electro-mechanical position limiter, build-in RF receiver and manual-override mechanism. Torque and speed is 20 Nm and 17 rpm respectively.	6	Ø	0
TMM 45 30-17	Motor with electro-mechanical position limiter, build-in RF receiver and manual-override mechanism. Torque and speed is 30 Nm and 17 rpm respectively.	69	Ø	•
TMM 45 40-17	Motor with electro-mechanical position limiter, build-in RF receiver and manual-override mechanism. Torque and speed is 40 Nm and 17 rpm respectively.	6	6	•
TMM 45 50-17	Motor with electro-mechanical position limiter, build-in RF receiver and manual-override mechanism. Torque and speed is 50 Nm and 12 rpm respectively.	6	R	



Ø 45mm Series LUMEN

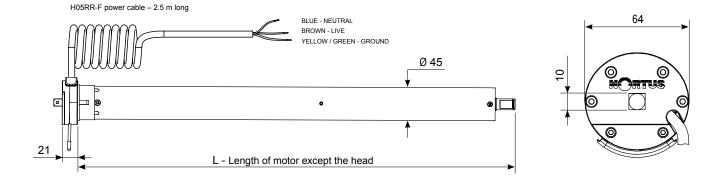
RTUS



This electronic version equips with obstacle detection system and a preferred position.

This LUMEN Series is developed with an intelligent obstacle detection system with self-learning technology.

In fact, the electronic limit position switch and built-in RF receiver permit setting of the limit positions by remote control in a simple and intuitive way. Setting feedback is provided by audible and visual signals.



Degree of protection	Rated input (V - 50/60Hz)	Operating temperature (°C)	Operating time (min)	Limit switch capacity
IP 44	230 AC	-10 ÷ +50	4	∞

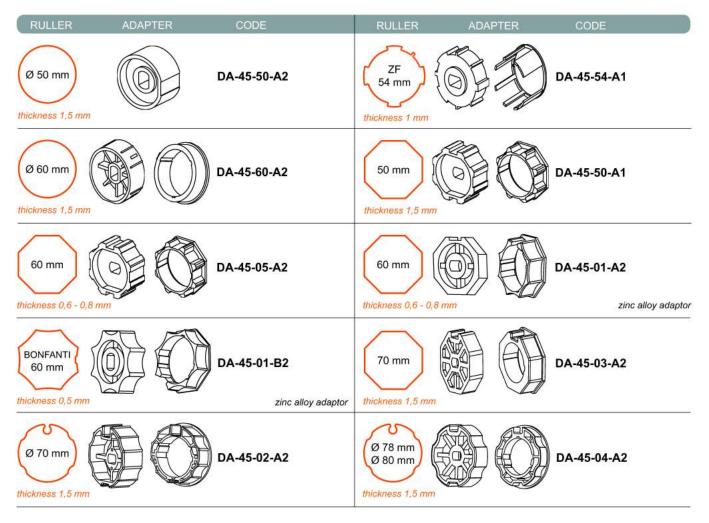
Product No	LUMEN 45 10-17	LUMEN 45 20-17	LUMEN 45 30-17	LUMEN 45 40-17	LUMEN 45 50-12	LUMEN 45 10-30
L - Motor length (mm)	610	650		670	670 650	
Net weight (kg)	2,6	3	3,2	3,4	3,2	3
Current (A)	0,72	1	1,30		1	
Power consumption (W)	161	230	300		230	
Torque (Nm)	10	20	30	40	50	10
Speed (rpm)	17	17	17	17	12	30
* Theoretical Loading capacity (kg)	19	38	58	76	96	19
* roll diameter 60 mm						



	SHITTER LLCCK	
LUMEN 45 10-17	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 10 Nm and 17 rpm respectively.	Ģ
LUMEN 45 20-17	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 20 Nm and 17 rpm respectively.	F
LUMEN 45 30-17	Motor with electronic position limiter, build-in RF receiver. Torque and speed is 30 Nm and 17 rpm respectively.	(F
11 INTENLAS 40 47	Motor with electronic position limiter, build-in RF receiver.	6

LUMEN 45 40-17 Motor with electronic position limiter, build-in RF receiver. LUMEN 45 50-12 Motor with electronic position limiter, build-in RF receiver. Torque and speed is 50 Nm and 12 rpm respectively. Image: Comparison of the position limiter, build-in RF receiver. LUMEN 45 10-30 Motor with electronic position limiter, build-in RF receiver. Image: Comparison of the position limiter, build-in RF receiver. LUMEN 45 10-30 Motor with electronic position limiter, build-in RF receiver. Image: Comparison of the position limiter, build-in RF receiver.

ADAPTERS FOR ROLLER SHUTTER



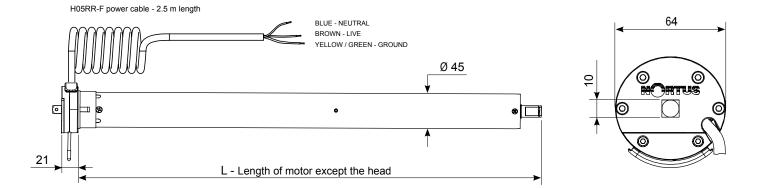
Ø 45mm Series VELUM



ELECTRONIC TUBULAR MOTOR WITH ELECTRONIC POSITION LIMITER AND BUILT-IN 868,35 MHZ RADIO RECEIVER.

VELUM offers specific programs for both open and box type awnings, respectively.

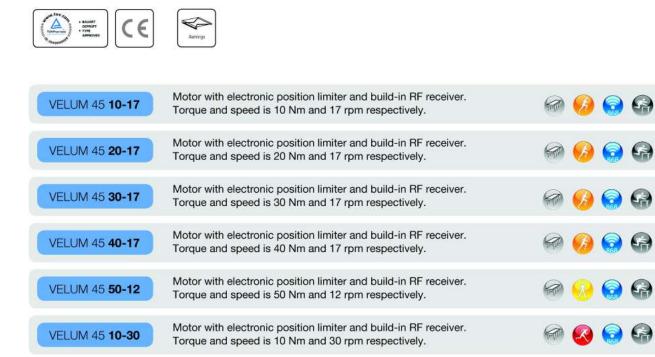
This VELUM Series is designed with encoder technology; The gentle-closure system developed specifically for box-type awning protects the structure and longevity of the fabric. In fact, the electronic position limiter and built-in radio receiver permit remote-control control of the limit positions in a simple and intuitive way. Setting feedback is provided by audible and visual signals.



Degree of protection	Rated input	Operating	Operating time	Limit switch
	(V - 50/60Hz)	temperature (°C)	(min)	capacity
IP 44	230 AC	-10 ÷ +50	4	∞

Product No	VELUM 45 10-17	VELUM 45 20-17	VELUM 45 30-17	VELUM 45 40-17	VELUM 45 50-12	VELUM 45 10-30
L - Motor length (mm)	610	650		670	650	
Net weight (kg)	2,6	3	3,2	3,4	3,2	3
Current (A)	0,72	1	1,30		1	
Power consumption (W)	161	230	300		230	
Torque (Nm)	10	20	30	40	50	10
Speed (rpm)	17	17	17	17	12	30
* Theoretical Loading capacity (kg)	19	38	58	76	96	19
* roll diameter 60 mm						





RULLER ADAPTER CODE	RULLER ADAPTER CODE
Ø 50 mm thickness 1,5 mm DA-45-50-A2	ZF 54 mm thickness 1 mm
Ø 60 mm	50 mm DA-45-50-A1
60 mm DA-45-05-A2	60 mm Office of the second sec
BONFANTI 60 mm thickness 0,5 mm BONFANTI 60 mm DA-45-01-B2 zinc alloy adaptor	70 mm thickness 1,5 mm
Ø 70 mm hickness 1,5 mm	Ø 78 mm Ø 80 mm <i>hickness 1,5 mm</i>

Ø 59mm Series **TP**

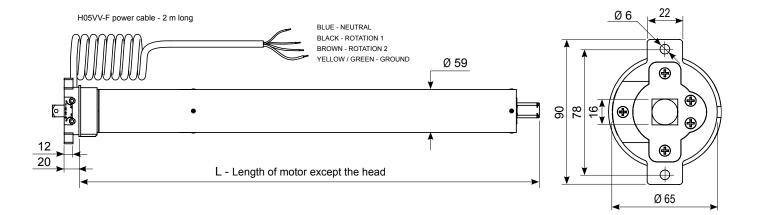


ELECTROMECHANICAL TUBULAR MOTOR WITH MANUAL LIMIT POSITION SWITCH.

The Ideal solution for heavy duty roller shutters.

Nn this version with electro-mechanical position limiter, Series TP 59 is the optimal solution for different size and weights of roller shutters and blinds.

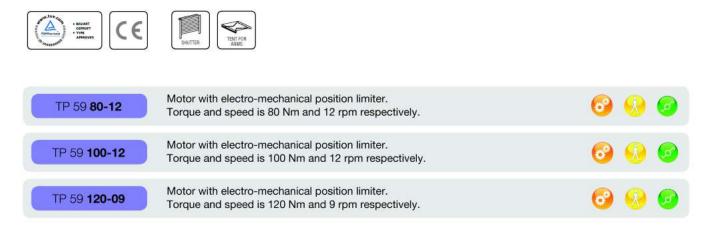
Three models with power of 80, 100 and 120 Nm can be used to ensure maximum power for roller shutters and blinds at the right speed.



Degree of protection	Rated input (V - 50/60Hz)	Operating temperature (°C)	Operating time (min)	Limit switch capacity	
IP 44	230 AC	-10 ÷ +50	4	26	

Product No	TP 59 80-12	TP 59 100-12	TP 59 120-09			
L - Motor length (mm)	59	93	620			
Net weight (kg)		6,5				
Current (A)	3,3 3,6					
Power consumption (W)	270	310	360			
Torque (Nm)	80	100	120			
Speed (rpm)	1	12				
* Theoretical Loading capacity (kg)	115	145	170			
* roll diameter 70 mm						

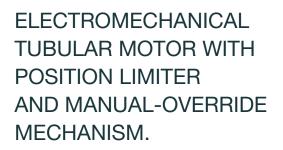








- Carrier

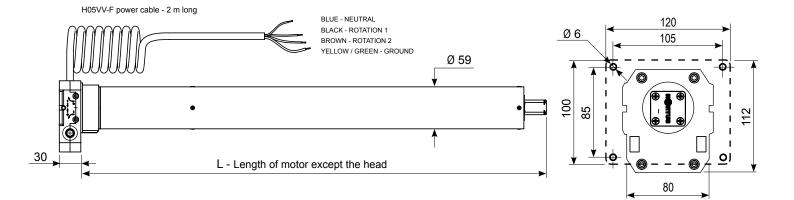


The Ideal solution for heavy duty roller shutters and awnings.

The TPM Series 59 is applicable for all large and heavy roller shutters and awnings thanks to the integrated manual-override mechanism providing fast and accurate adjustment of the limit positions.



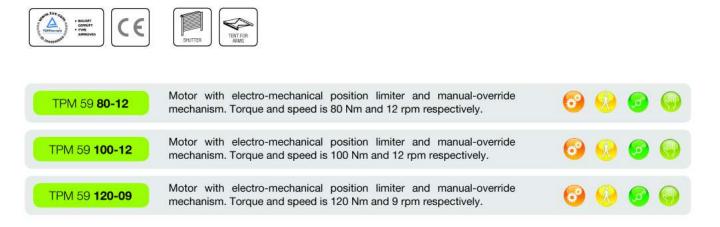
Included in the motor, the special bracket is provided for easy installation.



Degree of protection	Rated input	Operating	Operating time	Limit switch
	(V - 50/60Hz)	temperature (°C)	(min)	capacity
IP 44	230 AC	-10 ÷ +50	4	26

Product No	TPM 59 80-12	TPM 59 100-12	TPM 59 120-09			
L - Motor length (mm)	5	93	620			
Net weight (kg)		7,2				
Current (A)	3,3	3,3 3,6				
Power consumption (W)	270	310	360			
Torque (Nm)	80	100	120			
Speed (rpm)		12				
* Theoretical Loading capacity (kg)	115	145	170			
* roll diameter 70 mm						





RULLER ADAPTER CODE	RULLER ADAPTER CODE
70 mm thickness 1 mm	Ø 70 mm thickness 1 mm
Ø 78 mm Ø 80 mm thickness 1 mm	DA-59-05-A1
Ø 85 mm thickness 2 mm	102 mm thickness 2,5 mm
Ø 102 mm thickness 2,5 mm	





ELECTROMECHANICAL TUBULAR MOTOR WITH POSITION LIMITER AND MANUAL-OVERRIDE MECHANISM.

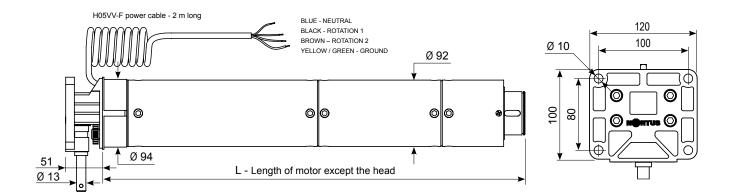
The Ideal solution for roller shutters.

The Series TPM 92 is powerful, robust and silent. Powers up to 180, 230 and 300 Nm.

Innovative product design represents the perfect solution to all roller shutter power operation.



Included in the motor, regulator switch.



Degree of protection	Rated input (V - 50/60Hz)	Operating temperature (°C)	Operating time (min)	Limit switch capacity	L - Motor length (mm)	Net weight (kg)
IP 44	230 AC	-10 ÷ +50	4	26	555	16,5

Product No	TPM 92 180-12	TPM 92 230-12	TPM 92 300-09
Current (A)	2,8	3,8	4,2
Power consumption (W)	626	830	920
Torque (Nm)	180	230	300
Speed (rpm)	12		9
* Theoretical Loading capacity (kg)	210	340	400



· HUMAT · TATA · TATA · TATA · TATA · MARKAN · MAR	RLOCK				
TPM 92 180-12	Motor with electro-mechanical position limiter and manual-override mechanism. Torque and speed is 180 Nm and 12 rpm respectively.	69		Ø	•
TPM 92 230-12	Motor with electro-mechanical position limiter and manual-override mechanism. Torque and speed is 230 Nm and 12 rpm respectively.	6	•	Ø	•
TPM 92 300-09	Motor with electro-mechanical position limiter and manual-override mechanism. Torque and speed is 300 Nm and 9rpm respectively.	0		Ø	•

ADAPTERS FOR ROLLER SHUTTER



COMPLEMENTARY ACCESSORIES

DOMO M



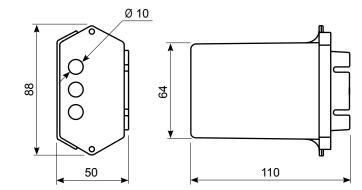
RECEIVER FOR THE RADIO CONTROL OF MOTORS.

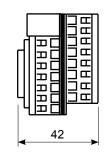
The ideal solution for managing central cable.

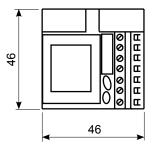
The DOMO M command module permits the linking in series and simultaneous command of several motors with either one general command or several individual commands.

For general command, you can use either a pulse (button switch) or an auxiliary command (remote control or other).

Each input can be linked to several buttons. The small size of the shockproof central and full container permits installation in very small spaces.







Degree of protection	Rated in (V - 50/60			Operating temperature (°C)	
IP 55 (unopened contail	ners) 230 AC		10 (cosφ	1) - 4 (cosø 0,4)	-20 ÷ +60
Time work contacts (min)	Terminal section (mm2)	Reset		Housing material	Unit weight (gr)
2,5	2,5	PTC pro	otection	ABS	116





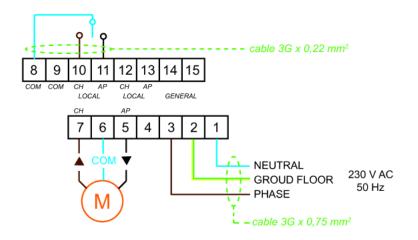
DOMO M

Button row control module for motor and centralized control of several motors.



CONNECTION DIAGRAM

SINGLE MOTOR CONNECTION - LOCAL CONTROL



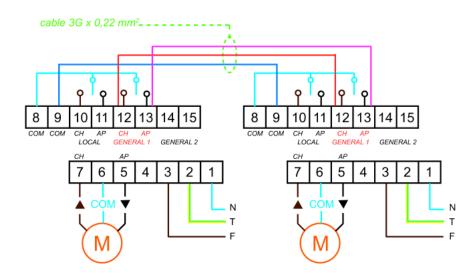
Connect the motor to terminals 5-6-7. Connect power supply to terminals 1-3. Connect the button to terminals 8-9 (Common), 10-11 or 12-13 for local control. Any command based on the above entries can be disabled by any of the other buttons.

Each terminal can be connected in parallel to several command buttons.

During motor operation, pressing the button in the opposite direction stops the motor.

To restart, press the button again (in the desired direction).

MULTIPLE MOTORS CONNECTION - LOCAL AND CENTRALIZED CONTROL



Modules can be controlled more simultaneously, connecting them in parallel, using terminals 12-13 as a centralized command (GENERAL 1).

In this way, you can input the command from a module to stop the motor using its local control (10-11).

By contrast, the motors, once started, will be impossible to stop when using central command terminals 14-15 (generally 2).



The module DOMO M also features a neutral contact which is normally closed (NC). This contact, once opened, disables card operation as well as motor operation. It can also be used in the management of any sensor to block motor operation in an emergency or case of danger.

868,35 MHz Domo C

30400

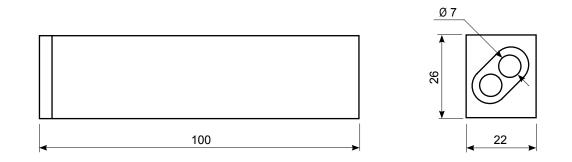
868,35 MHZ RF RADIO MODULE CONTROL RELAY FOR TP AND TPM SERIES.

The fastest, easiest form of remote control.

The DOMO C distance command is extremely small in size and easy to install.



It is compatible with remote controls DOMO series at 868,35 MHz.



Degree of protection	Rated inp (V - 50/60		Current (A)		Power consumption (W)
IP 55 (unopened contain	ners) 230 AC		2,2		500
Operating temperature (°C)	Operating time (min)	Terminal ga (mm2)		requency Hz)	Security code
-20 ÷ +60	4	2,5	868	3,35	64 basic

Connection	Operating range (m)	Housing material	Net weight (gr)
27 programmable remote controls - 3 sensors	80 (free field)	ABS	51,7



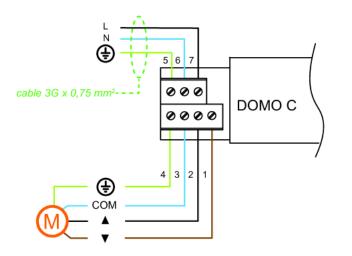


DOMO C

868MHz RF wireless control relay for TP and TPM series.



SINGLE MOTOR CONNECTION - RADIO CONTROL



CONNECTION DIAGRAM

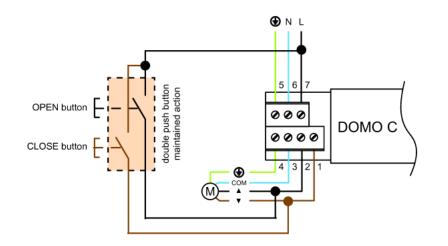
Connect power supply to terminals 5-6-7 and the motor to terminals 1-2-3-4.

Initial preparation for the first time installation – Power down the DOMO C and rest for at least 5 seconds then power it on again to entry paring mode. Motor rotates back and forth to acknowledge the paring mode is activated:

1. Pairing remote: Press and hold "UP" and "DOWN" button simultaneously at least 5 seconds. The LED on remote will flash for 10 seconds.Motor rotates back and forth to confirm the pairing is successfully.

2. Reverse of rotation: Press and hold "UP", "STOP" and "DOWN" button simultaneously at least 5 seconds. The LED on remote will flash twice. Motor rotates back and forth to confirm the changing of rotation is successfully.

SINGLE MOTOR CONNECTION - CONTROL + RADIO BUTTON



Attention:

To control the tubular motor simultaneously with remote control (DOMO unit C) and control in row wall, and must use only maintained action buttons. When the motor is driven by panel which cannot be operated on radio and vice versa.

RADIO KIT FOR REMOTE CONTROL OF STANDARD MOTOR (Series TP - TPM)



With the kit and DOMO DOMO C / 4 and Domo can even remotely control the radio tubular motors electromechanical standards, ie without integrated radio receiver (TP Series - TPM).

The versatility of the unit DOMO C also allows this kit to be combined with any engine with electromechanical limit switch (power cable to 4 wires: ground - neutral - phase 1 - phase 2).

COMPATIBILITY

TP 59 - PAGE. 32 TPM 59 - PAGE. 34

433,92 MHz DOMO C+

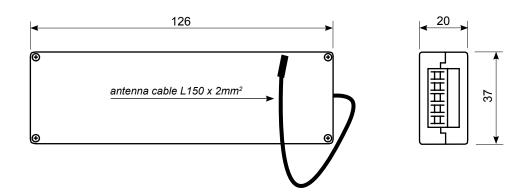


433.92 MHZ WIRELESS AND WIRED MOTOR CONTROL.

The simple and fast wired and wireless motor control solution.

DOMO C+ is extremely small size and the simplicity of installation, allow you to apply the command from a distance with wireless remote controls or wired push button.

It is compatible with remote controls DOMO T series at 433,92 $\,$ MHz.









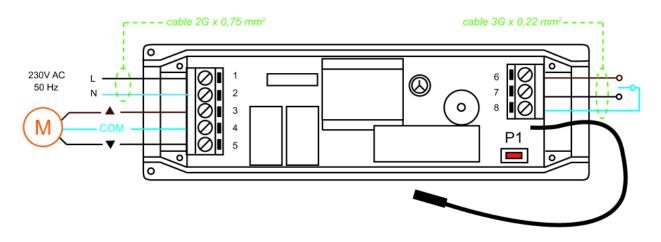
DOMO C+ signal.

433 MHz radio module for motor control by push-button and / or radio



CONNECTION DIAGRAM

SINGLE MOTOR CONNECTION - RADIO OR BUTTON CONTROL



To store a new series transmitter DOMO T, simply hold down the button P1; the buzzer inside the card will emit a continuous signal. Then press the remote control command to save the information. Confirmation of the saved information will be indicated by an intermittent buzzing signal.

The module provides for C + DOMO two command modes:

IMPULSE CONTROL

Pressing the button pulse for less than 1 sec. triggers motor movement in increments.

CONTROL SWITCH

Pressing the button for more than 2 sec. triggers the receiver command, which then remains active for the necessary working time, after which the engine is shut down by the end of travel feature.

RADIO KIT FOR STANDARD MOTOR REMOTE CONTROL (Series TP - TPM)



The DOMO DOMO C + and T - T1 - T5 - T34 kit permits distance radio control of standard electromechanical tubular motors, i.e., without built-in radio receiver (TP Series - TPM).

The versatility of the DOMO C + unit also allows the kit to be combined with any electromechanical motor equipped with a mechanical limit position switch (cable 4-wire power: Earth - Neutral phase 1 - phase 2).

COMPATIBILITY

TPM 45 - PAGE. 24

TPM 59 - PAGE. 34

868,35 MHz Domo

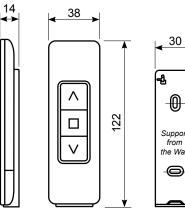
868,35 MHZ RF TRANSMITTERS WITH 64 BASE ENCRYPTION.

The Elegant remote control up to 4 channels.

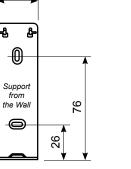
With its innovative design, DOMO is a new line of 4-channel remote controls for Nortus motors.



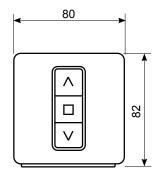
Combined with LEDs, thin and extremely intuitive in use, DOMO is compatible with the LUMEN and VELUM Series and are just as easy to operate.

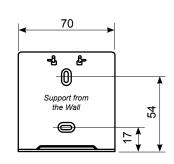


N. 2 M3 x 25 screws included in each pack



DOMO - DOMO 4





DOMO² - DOMO² 4

Degree of protection	Rated input (V)	Operatir temperature		Radio Frequency (MHz)
IP 40 (unopened containers)	3 DC - 1 x CR203	32 -10 ÷ +5	5	868,35
Security code	0	perating range (m)		Material
64 base		80 (free field)		ABS

Product code	DOMO	DOMO ²	DOMO 4	DOMO ² 4
No of channels	1	1	4 + group	4 + group
Weight (gr)	38	42	38	42

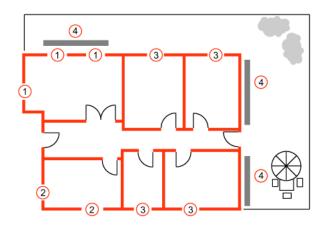




DOMO	868,35 MHz single channel RF hand-held remote control.	R
DOMO ²	868,35MHz 2 channels RF wall-mounted remote control.	
DOMO 4	868,35 MHz 4 channels RF hand-held remote control.	
DOMO ² 4	868,35MHz 4 channel RF wall-mounted type remote control.	

EXAMPLES OF APPLICATION

GROUP MANAGEMENT UNILITIES



GROUP: All automation controlled simultaneously. GROUP 1: living room (3 shutters); GROUP 2: kitchen (2 blinds); GROUP 3: bedrooms + bathroom (4 blinds); GROUP 4: awnings (3 tents).

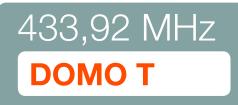
With DOMO 4, it is possible to combine each group into a single transmission channel for simultaneous individual user control, or total control of all users (selecting the individual group or group as a whole, by means of the CH button).

REMOTE CONTROL KIT FOR TP – TPM Series



The DOMO C and DOMO/DOMO 4 kit enables distance control of standard tubular electromechanical motors, i.e. without built-in radio receiver (TP Series - TPM).

The versatility of the DOMO C unit also permits the kit to be combined with any electromechanical motor equipped with a mechanical limit position switch (cable 4-wire power: Earth - Neutral - phase 1 - phase 2).



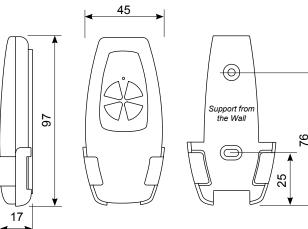


433.92 MHZ RF TRANSMITTER WITH ENCRYPTION.

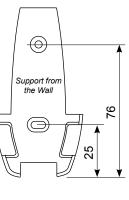
Practical and robust remote control of up to 34 user groups.

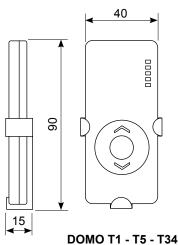
Simplicity and intuitive DOMO T34, 34-channel of remote controls for Nortus motors.

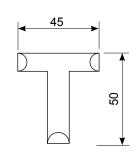
Complete LCD display for quick selection of the desired channel The DOMO T series also comes equipped with VENTUS and VENTUSOL central weather forecasting for awning remote control.











Degree of protection	Operating temperature (°C)	Radio Frequency (MHz)	Code	Flow rate (m)	Housing material
IP 40 (unopened contai-	-10 ÷ +55	433,92	Rolling Code	80 (free field)	ABS

Item No	ДОМО Т	DOMO T1	DOMO T5	DOMO T34
Rated input (V)	12 DC - 1 x 23A		3 DC - 1 x CR2430	
Recording channels	2	1	5	34
Weight (gr)	42	26		

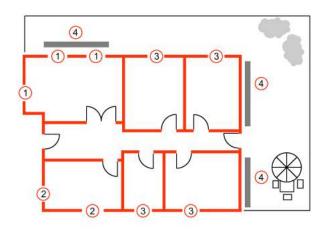




DOMO T	433,92 MHz control.	
DOMO T1	433,92 MHz.	
DOMO T5	433,92 MHz 5 channels.	
DOMO T34	433,92 MHz 35 channels with complete LCD display.	٢

EXAMPLES OF APPLICATION

GROUP USER MANAGEMENT



GROUP: All automation controlled simultaneously. GROUP 1: living room (3 shutters); GROUP 2: kitchen (2 blinds); GROUP 3: bedrooms + bathroom (4 blinds); GROUP 4: awnings (3 tents).

With DOMO 4, it is possible to combine each group into a single transmission channel for simultaneous individual user control, or total control of all users (selecting the individual group or group as a whole, by means of the CH button).

STANDARD MOTOR REMOTE CONTROL KIT (Serie TP - TPM)



The DOMO C + and DOMO T-T1-T5-T34 kit enables distance control of standard tubular electromechanical motors, i.e. without built-in radio receiver (TP Series - TPM).

The versatility of the DOMO C + unit also permits the kit to be combined with any electromechanical motor equipped with a mechanical limit position switch (cable 4-wire power: Earth - Neutral - phase 1 - phase 2).

433,92 MHz Ventus



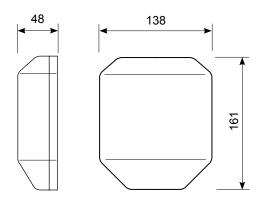
CENTRAL CONTROL AND WIND / RAIN OR IN VERSIONS WITH OR WITHOUT REMOTE CONTROL.

Protecting the awning from wind and rain.

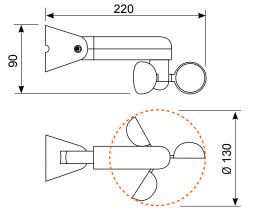
VENTUS is a weatherized control unit for the management of motorized blinds, providing protection from wind and rain (optional).

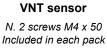
Available in VENTUS one-motor version or VENTUS two-motor versions, or one motor with additional radio command, including transmitter (VENTUS R).

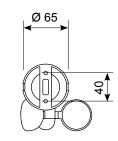
The entire VENTUS range also offers the possibility of motor control management by a push button link to be connected to the central unit (clean contact).



VENTUS - VENTUS 2 - VENTUS R







Degree of protection	Rated input	Operating	Maximum flow	Motor fuse	Range threshold	Housing
	(V - 50/60Hz)	temperature (°C)	relay	(A)	wind (Km/h)	material
IP 55	230 AC	-10 ÷ +60	250V AC - 6,4 with cosφ 0,4	2,5	1 ÷ 45	ABS

Item No	VENTUS	VENTUS 2	VENTUS R
Radio Frequency (MHz)		-	433,92
Encryption		-	Rolling Code
Flow transmitter (m)		80 (free field)	
Transmitters stored		-	6
Weight (gr)	344	352	362





VENTUS	Central Control of WIND and / or rain - 1 motor.	0
VENTUS 2	Central Control of WIND and / or rain - 2 motors.	6
VENTUS R	Central control of wind and / or rain - 1 motor, complete with radio control (including DOMO T).	😝 🌚

COMPLEMENTARY ACCESSORIES

DESCRIPTION		CODE	DESCRIPTION	CODE
	Pluviostat	PLV	Miniat anemor	VINII
	WIND Sensor	VNT		

EXAMPLES OF APPLICATION

VENTUS R SENSOR CONNECTED TO A MOTOR (TP Series - TPM) \oplus 5W1 🛛 🞯 PLV LED2 OSP1 LED! 000 000 00000000 0 9 10 11 12 13 14 CH AP CH AP cavo sensore in dotazione 10000 VNT 6 - - cavo 3G x 0,22 mm2 N F L - cavo 2G x 0,75 mm2 230V AC 50Hz

VENTUS R permits control of a motor connected to terminals 2-3-5, using a VNT sensor (10-11) and/or PLV pluviostat. (12-13-14).

Transmitter storage (DOMO T Series) is by button SP1 and central acoustic signal.

It is also possible to connect a local control button (7-8-9).

Upon termination of the wind alarm with the SW1 jumper OPEN, the awning is repositioned where it was (if it was open before, it reopens). Upon termination of the wind alarm with the SW1 jumper is CLOSED, the awning is closed.

433,92 MHz Ventusol



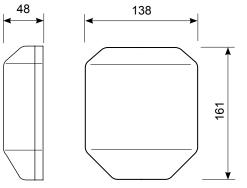
CENTRAL WIND, SUN AND/ OR RAIN CONTROL IN THE VERSION WITH OR WITHOUT REMOTE CONTROL.

Total awning control under any weather conditions.

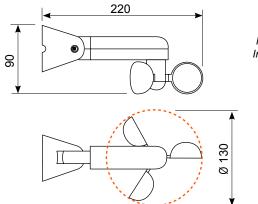
VENTUSOL and central control weather for the management of motorized blinds to provide protection against WIND, SUN and RAIN (optional).

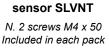
Available in single-motor version (VENTUSOL) or single-motor with additional radio command, including transmitter (VENTUSOL R).

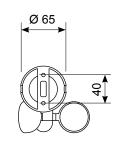
The entire VENTUS range also offers the possibility of motor control management by a push button link to be connected to the central unit (clean contact).



VENTUSOL - VENTUSOL R







Degree of	Rate input	Operating	Maximum flow
protection	(V - 50/60 HZ)	temperature (°C)	relay
IP 55	230 AC	-10 ÷ +60	250V AC - 6,4 with coso 0,4
Motor fuse	Range threshold	Threshold range	Housing
(A)	wind (km / h)	only (Klux)	material
2,5	1 ÷ 45	1 ÷ 99	ABS

Item No	VENTUSOL	VENTUSOL R
Radio Frequency (MHz)	-	433,92
Encryption	-	Rolling Code
Flow transmitter (m)	-	80 (free field)
Transmitters stored	-	6
Weight (gr)	344	362





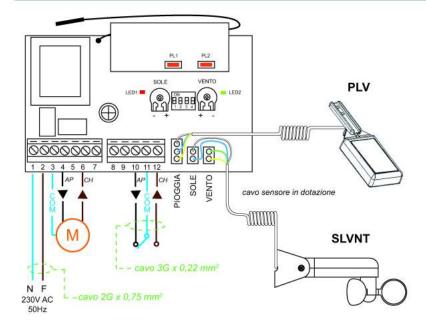
VENTUSOL	Central control providing protection against sun, wind and/or rain - 1 motor.	6
VENTUSOL R	Central control providing protection against sun, wind and/or rain - 1 motor, complete with radio control (including DOMO T).	🙃 💮

ADDITIONAL ACCESSORIES

DESCRIPTION		CODE	DESCRIPTION		CODE
	Pluviostat	PLV		Miniature nemometer	VNTT
	WIND Sensor	VNT	s s	UN - WIND Sensor	SLVNT

EXAMPLES OF APPLICATION

SENSOR VENTUSOL R CONNECTED TO A MOTOR (TP Series - TPM)



VENTUS R permits control of a motor connected to terminals 3-4-6, using a SLVNT sensor and/or PLV pluviostat linked to the appropriate terminals.

Radiocommand memorization (DOMO T Series) is by means of the PL2 button and deletion is by means of the PL1 button.

It is also possible to connect a local command button (11/10/12).

Central programming functions is by means of dip switches positioned in the middle of the wind and sun threshold regulation trimmer.

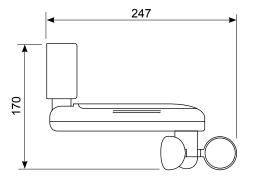
868,35 MHz Sensus

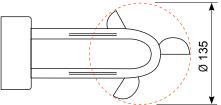
868MHZ RF WIRELESS WIND, RAIN AND SUN SENSOR FOR VELUM AND LUMEN SERIES.

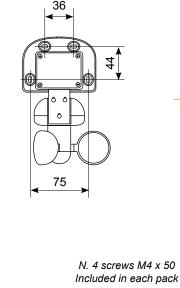
3 in 1 sun awning weather station.

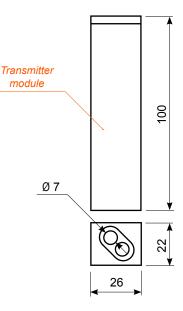
SENSUS is the new weather sensor product from Nortus Italy for the detection of wind, sun and rain by built-in radio transmitter, able to check one or more motorized sun awnings with equipment from the Nortus range.

No wiring between the sensor and motor: transmission takes place exclusively via radio signal, at a frequency of 868.35 MHz. Transmission distance: guaranteed up to 40 meters in free space!









Degree of protection	Operating temperature (°C)	Radio Frequency (MHz)	Encryption	Operating range (m)	Housing material
IP 55	-20 ÷ +60	868,35	Rolling Code 64 base	40 (free field)	ABS

Product No	SENSUS	MODULE TRANSMITTER
Rated input (V)	12 DC (from transmitter module)	230 AC 50Hz
Weight (gr)	604	51,7





SENSUS

WIND - SUN - RAIN radio sensor 868.30 MHz.



MAIN CHARACTERISTICS



Anemometer sensor for the detection of WIND (from 0 to 50 Km/h)



LUMINOUS INTENSITY sensor (adjustable in situ)



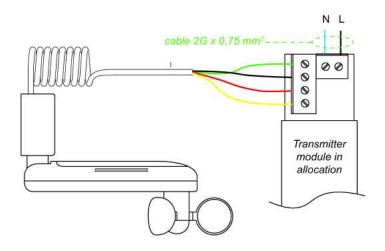
RAIN sensor (from 0 to 5 mm/h)



Individual adjustment for wind, rain and sun sensor

CONNECTION EXAMPLES

QUICK INSTALLATION GUIDE FOR LUMEN/VELUM SERIES



1. Connect the sensor and transmission module as shown.

Power off the sensor at least for 10 seconds.
 Open the pairing window of target device(s) then power on the sensor within 5 seconds.
 Target device(s) will rotate back and forth to confirm successful pairing within 30 seconds.

INSTALLATION WITH STANDARD MOTOR SERIES TP / TPM



The DOMO C radio module can be combined with the Sensus sensor and standard electromechanical tubular motors, i.e., without built-in radio receiver (TP Series - TPM).

The versatility of the unit DOMO C also allows this kit to be combined with any electromechanical motor equipped with mechanical limit position switch (cable 4-wire power: Earth - Neutral - phase 1 - phase 2).

MECHANICAL ACCESSORIES MOTOR FIXING

DEVICE		COMPATIBLE MODEL	CODE	
	Wall mount bracket with hole for a star Pin 10 mm. - No 2 M6 holes 48 mm spacing. - No 2 holes M8 60 mm.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	MB-45-01	
	Wall mount bracket with a recess for pin 10 mm. - No 2 M8 hole spacing 58 mm.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	IB-45-01	
	Curved bracket with hole for a star Pin 10 mm. - No 2 loops or 8 mm max distance 50 mm.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	BB-45-01	
000	Flat bracket with hole for a star Pin 10 mm. - No 2 loops or 8 mm max distance 50 mm.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	BP-45-01	
ET ?	Wall mount Bracket with square hole for Pin 16 mm. - No 2 M8 hole spacing 70 mm. - No 4 or 8 holes 70 mm spacing.	TP 59	MB-59-01	
- And	Adjustable stand with hole star to pin 10 mm. - No 1 screw M10 x 60 complete mounting locknuts.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	WS-45-01	
	Wall mount bracket 100 x 100 mm with stand saddle pin 10 mm. - No 4 OR 6 mm holes.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	SB-45-01	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Wall bracket 100 x 80 mm - No 4 OR 6 mm holes.	TP 35/45 TPM 45 TMM 45 LUMEN 35/45 VELUM 45	WB-45-01	
• × •	Plate with a hole for the cross application of roller blinds (Replacing the pin number). - Cross-hole 12 x 12 mm.	TP 35	SB-35-01	



MECHANICAL ACCESSORIES TO COMPLETE

DEVICE		COMPATIBLE MODEL	CODE	
4	Internal tie-in . - 7 mm hexagon rod. - Shaft length 85 mm.	TPM 45 TMM 45	OC-45-01	
New Contraction	External tie-in Jointed at 90° - 7 mm hexagon rod. - Shaft length 400 mm. - 2 O 3 mm mounting holes.	TPM 45 TMM 45	OCS-45-01	
	Bearing housing to be screwed for 42 mm ball bearing. - 3 holes diameter 6 mm.	-	SCUS42	
	Ball Bearing Diameter 42-mm steel.	-	CUS42	
G	PVC octagonal idle - Roller diameter 60 mm. - Length 50 mm.	-	CA6050	
A Charles	Telescopic octagonal idle in PVC. - Roller diameter 60 mm. - Length 200 mm.	-	CAT60200	
	Octagonal outer tube. - 60 mm outer diameter. - 0.8 mm thick roller. Packaged in 3 m.	-	ROTT60810	
	SECURBLOK spring. - 7 items. - Tube of 14 mm.	-	SECURBLOK	
	SECURBLOK adapter. - 3 runs. - Roller diameter 60 mm.	-	SEC-DA-60	
	SECURBLOK adapter. - 3 runs. - Roller diameter 70 mm.	-	SEC-DA-70	

TERMS OF SALE AND WARRANTY

1. GENERAL INFORMATION

The following general conditions of sale and warranty are reserved exclusively to direct customers NORTUS ITALY Srl. All orders will be transmitted to NORTUS ITALY Srl, in conjunction with the transmission of order, membership and unconditional customer to these terms general sale, or otherwise required under different conditions by the customer are ineffective, regardless of the time NORTUS became aware of such conditions, in the absence of formal acceptance of the same.

NORTUS ITALY SrI may modify these conditions at any time, with due notice to customers. The present general conditions apply to all contracts of purchase of materials from NORTUS ITALY SrI, hereinafter referred to as "the company."

2. OFFERS ESTIMATES

The offers of the company are valid for a period maximum of 30 days from the date of dispatch.

3. ORDERS

Orders are sent by the client in writing, also via fax or e-mail.

The sales contract shall be deemed concluded upon confirmation of the written order by NORTUS ITALY Srl.

The confirmation order contains all conditions of sale, including contractual terms and conditions of delivery, or a reference the same in case of previous information.

No alterations or addition of individual provisions to the present general conditions or of any other provisions of the order originally issued by the customer shall be effective unless approved in writing by the company.

In case of changes in the order, the company reserves the right to cancel the changes in the original order.

Cancellation must be in writing, by fax or e-mail. In the absence of cancellation within the prescribed period, the order will be irrevocably confirmed.

4.PRICES

The selling prices in the NORTUS ITALY SrI price list are approximate and are subject to change. All references to the price list are to the latest price charged by the company, annulling all previous prices.

NORTUS will notify the customers in writing of all changes in the price list, by fax or e-mail.

The final price shall, in any case, be the price indicated in the order confirmation submitted to the customer by the company.

In the absence of special instructions upon ordering and confirmation, all prices are:

- expressed in euro (€), net of VAT and / or taxes and sales tax;
- normal NORTUS packaging;
- franco NORTUS company headquarters;

5. Delivery and Shipping

The place of performance for the delivery of the goods and the place of production shall be the headquarters of the company.

The goods shall be shipped at the cost and risk of buyer if the transport is carriage forward in accordance with Incoterms 2000.

Unless otherwise agreed, the company shall establish the type of shipment, the transport route and the carrier, in the name and account of the customer.

The company reserves the right to perform partial execution or make partial delivery of orders, issuing a separate bill for each delivery: in this case, all deliveries partial will be billed independently, and the terms of payment shall begin to run from the date of each invoice. The customer will not, therefore, be entitled to delay payment for partial deliveries, pending completion of all deliveries of the original order.

Insurance cover for the shipment shall only be contracted at the customer's request and expense, as indicated by the confirmation order.

The customer shall be responsible for checking the consignment and transport of goods, upon receipt.

In case of damage, loss, theft or other damages, the customer shall be fully responsible for indicating any reservations on the transport document signed by the shipper.

The reservation and complaint must be confirmed by registered letter with return receipt, addressed to the shipper, and acknowledged by NORTUS ITALY SrI, within the three (3) days of delivery of the goods.

6. CLAIMS AND RETURNS

All claims must be made in writing within 8 days of receipt of goods, with reference to the quantity or quality of goods delivered.

Returns will be accepted by the company only after written agreement, in the case of new goods only, complete with original packaging.

Returns must be accompanied by specific document transport, indicating the written authorization of return signed by the company stating the quality and quantity of goods delivered. Returns will not be considered accepted by the society unless made in the manner described above. In particular, returns shall not be construed accepted by the company simply based on the delivery of goods at the company office or warehouse.

The following goods shall be excluded from the returns procedure and returned to customer, at the customer's expense:



- good not identified by corresponding number serial;
- goods which have been tampered with and/or modified by the customer without authorization;
- goods not accompanied by a copy of the return authorization;
- goods for which the customer is unable to produce the document showing delivery of the product by NORTUS ITALY Srl , i.e., shipping document and / or invoice;

All returns will be charged to the customer's risk and expense.

Upon company confirmation of apparent defects and/or non-compliance, the customer shall, at the discretion of NORTUS ITALY at all times, be entitled to free replacement of the goods or a refund of the agreed price, as paid.

No compensation payment shall be made on any grounds or in any amount.

7. CONDITIONS OF PAYMENT

Payment shall be made by the customer as agreed in the order confirmation or contract of sale.

NORTUS ITALY Srl reserves the right to change the agreed terms of payment without notice, whenever justified by conditions, particularly, on client orders involving a high financial risk for the company, or in the presence of customer failure to respect the agreed conditions of delivery.

Failure to pay within the agreed period shall entail application of interest at the rate indicated in Legislative Decree 09/10/2002 no. 231 (as transposed by Directive of the European Parliament and Council 2000/35/EC and Vienna Convention ratified by Italian State on 11/04/1980 by Law 765/1985) as amended and updated, without prejudice to claim for additional damages.

In the case of delay in payment, all losses incurred by the company in foreign exchange caused by the delay shall be due and payable by the customer. The customer shall be barred from making claims or raising objections against the company in the absence of prior payment in full.

The company reserves the right to block all outstanding shipments and orders in the case of irregularities in payment, without notice or claim to customer compensation for damages.

8. SAVING CLAUSE

Under the terms and for the effects of art. 1456 of the Civil Code, failure or delay in payment, or partial payment by the customer referred to in paragraph 6 of the General Conditions of Sale, shall entail the termination of the contract, with the right of the company to seek compensation for damages.

9. PRODUCT INFORMATION

NORTUS ITALY Srl is subject to a product information obligation involving the supply of technical documentation, user instructions and the accompanying maintenance manuals. The customer shall, in turn, be responsible for supplying his own customers with full information on the use and safety of all products supplied by the company.

It is furthermore understood that the technical documentation, user instructions and maintenance manuals may not cover all cases of product installation and use, and that the customer shall therefore be responsible for contacting NORTUS ITALY Srl for any additional information required.

10. PATENTS, TRADEMARKS AND DISTINCTIVE MARKINGS

The customer is aware that NORTUS Italy Srl trademark products are protected by patent and are the product of NORTUS Italy Srl. Know-how and designs are the exclusive intellectual and industrial property of NORTUS ITALY Ltd. according to Legislative Decree no 30/2005 and subsequent amendments (Industrial Property Code).

The customer is specifically prohibited from infringing the industrial and intellectual property rights of NORTUS ITALY SrI and from removing, eliminating or otherwise altering any trademark, logo or abbreviations of any kind affixed to the said products, as well as from affixing new markings or logos of any nature whatever.

Any form of reproduction or use of the NORTUS trademark or any other company symbol on the product is expressly prohibited without the express prior consent of NORTUS ITALY Srl.

11. WARRANTY

The guarantee, as provided in the present clause, applies to products sold by NORTUS ITALY SrI since the date of entry into effect of the present terms and conditions of sale. The Company warrants that its products are free from defects of materials, design and manufacture.

In the case of product defects related to materials, design and manufacture, the company undertakes to replace or repair the product concerned.

In the event of replacement or repair of products covered by warranty, the warranty period for the products thus replaced or repaired shall expire on the same date as that of the original delivery.

All products sold by NORTUS ITALY SrI are warranted for seven (7) years from the date of the transport document or, in the absence thereof, from the date of the sales invoice. The products considered defective will be shipped at customer expense to NORTUS ITALY Srl, Via L. Einaudi 25, 31030 Dosson Casier (Treviso), Italy.

The Company may require the customer copy of the invoice of purchase.

Products returned under the warranty prove defective following appraisal by NORTUS ITALY SrI, the said products will be replaced or repaired free of charge.

The shipping costs of all replaced or repaired products will be borne by NORTUS ITALY Srl. If the product is found free of defects of materials, design and manufacture following appraisal by the company, the company will undertake to repair and/or return all unrepaired material.

Upon completion of all the above mentioned operations, the company will inform the customer in writing, by fax or e-mail, of the product status and any costs incurred.

Product return will occur within one month of the date of receipt of the above mentioned communication.

Dedicated shipment will be charged entirely to the customer. The warranty shall not apply in the following cases:

- selection, installation, commissioning and use of the product caused by deviation from the instructions the technical documentation, user instructions and maintenance manuals included with the product;
- incorrect installation, use and maintenance due to customer negligence and carelessness;
- faultiness resulting from acts of God, such as natural phenomena or unpredictable events, or events, facts or phenomena not attributable to the product;
- use of the product in combination with inappropriate products and/or components;
- implementation of product changes and/or disassembly without express company authorization;
- Failure to follow instructions relating to the use of software applications not included with the product or governing its operation.

The warranty shall not be deemed to cover costs and expenses related to the replacement of consumable items subject to ordinary wear and tear, activities of product disassembly and re-installation, routine maintenance activities charged to the customer.

This warranty absolves NORTUS ITALY SrI from all liability related to the products supplied. NORTUS ITALY SrI shall not be held liable for costs, claims, losses and/or direct or indirect prejudice to the customer or any third party arising from the selection, installation and use of the products.

The customer shall be responsible for ensuring that the product is appropriate for the intended use, and shall furthermore be responsible, under the terms and for the effects of the law, for supplying all third party customers with full product information.

12. APPLICABLE LAW AND JURISDICTION

For the interpretation and application of the following general conditions of sale, the norms of the Code Civil force in Italy.

The Court of Treviso and competent for the case of disputes.

13. PROVISIONS PROTECTION OF PERSONAL DATA

According to existing legislation to protect the personal data, the customer's personal information will be entered into the company database, as required for proper management of the contractual relationship and the fulfillment of certain provisions of law, as well as for statistical purposes,

sales, marketing, promotion, credit protection management and assignment.

The customer's personal information will be processed using automated tools and printed by authorized individuals under conditions ensuring confidentiality.

The customer's personal information may be disclosed to public bodies, the company group management, debt collection agencies or companies, consortia or associations the company object of which consists of commercial or marketing research and marketing.

The data holder shall be deemed to be the company, subject to customer rights as established by law.

To this end, all acquiring parties are hereby informed that they will be entitled to access their own personal data at any time, and to request that the same be updated, corrected or deleted. Objection may also be raised against the processing thereof.

All data will be compiled and checked with the maximum care.

The company assumes no liability for error and/or omission. The contents of the catalog are subject to change at any time, without notice, by NORTUS ITALY Srl.







Nortus Italy Srl Via Einaudi, 25 Dosson 31030 Casier (TV) Italy Tel. +39 0422 1882814 Fax +39 0422 1882815 info@mynortus.com

www.mynortus.com