

CABLE REELS AND HOSE REELS

No 223-AE



**ADVANCED FLUID
MANAGEMENT SOLUTIONS**





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

*the human side
of Quality*



founded in 1975



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RAASM cable reels are designed
to ensure effective cable
and extension cords management,
to allow you to work in a
neat and protected
environment.

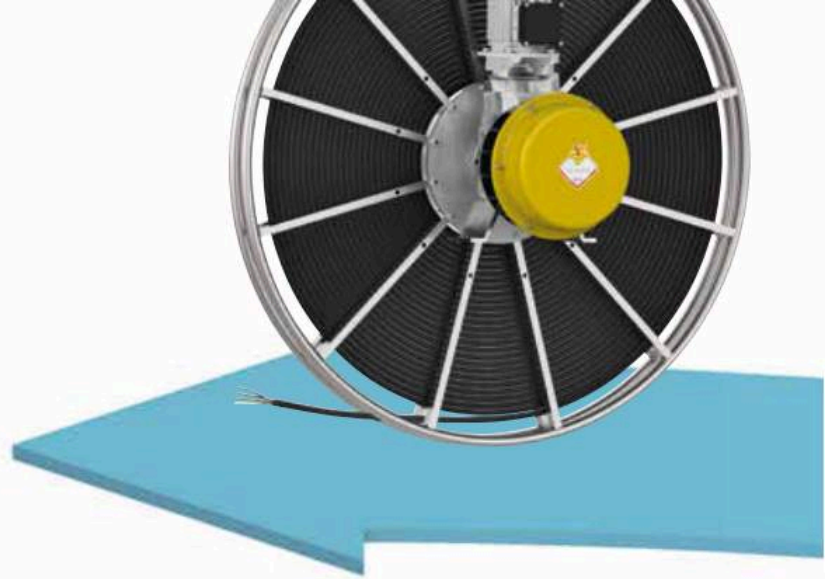
Our sales department
is at your disposal to provide
information and solutions.

www.raasm.com





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**





More than **5000** products available
for your business





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

VISION

DESIGN

TECHNOLOGY

QUALITY

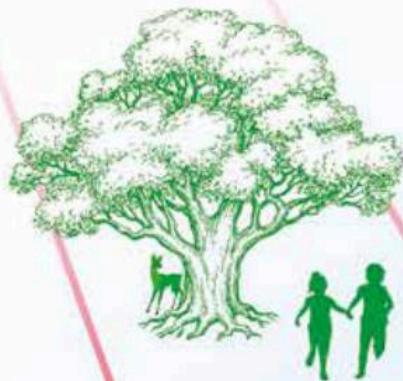
EFFICIENCY

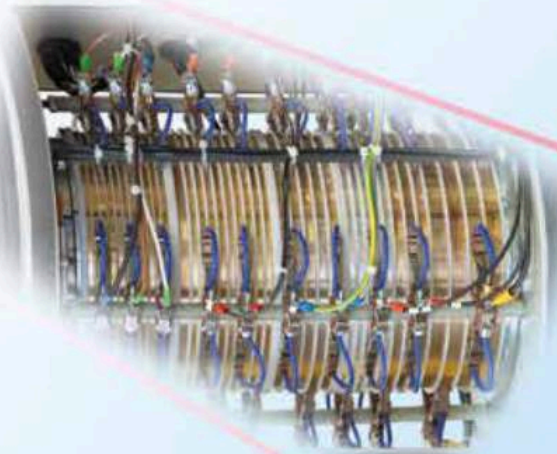
ASSISTANCE

ENVIRONMENT

PACKAGING

SHARING







ADVANCED FLUID MANAGEMENT SOLUTIONS

All **RAASM** cable reels rewind automatically and are equipped with a spring tested for tens of thousands of cycles which ensure a constant force. They are sturdy, compact, easy to position and removable. They allow managing with extreme ease and safety electrical cables of various sizes and cross sections ensuring a tidy and safe work environment.

All models are equipped with:

- strong and compact structure made in shockproof material of high mechanical resistance designed to withstand over time;
- rewinding spring;
- cable stop rack work;
- protective shell in shockproof material;
- cable guide with rollers;
- fixing bracket;
- system for the manual reset of electrical power (to prevent damage from eventual overloads) with rewinded cable;
- inlet cable for connection to the mains.

ACCESSORIES

Each model of **RAASM** cable reels is customizable with the following accessories:

- fixing bracket with "bayonet" coupler;
- protection cap;
- rewinding clutch.



Technical Characteristics

REWINDING CLUTCH

Optional, devoid of complex and potentially wearing kinematic motions, allows the rewinding of the drum at a safe speed.

SPRING

Rewinding spring totally protected from the external environment. The spring is subjected to a durability test of 20000 cycles, thus simulating an average life of over 10 years.

SIDE CLUTCH

The bracket is equipped with a special clutch which controls the rotation speed on the right and on the left of the cable reels.

PAWL

Easy to remove for maintenance or when the work requires free sliding.

THERMAL PROTECTOR

Safety system against overheating of the rewinded cable. Standard on all the models.

FIXING BRACKET

Adjustable up to 90° per side, constructed with sturdy structure, with fixing slotted holes that facilitate wall mounting.

PROTECTION CAP

Optional, in NBR synthetic rubber, it protects the cable reels from accidental entrance of foreign bodies through the cable guide.

CABLE GUIDE WITH ROLLERS

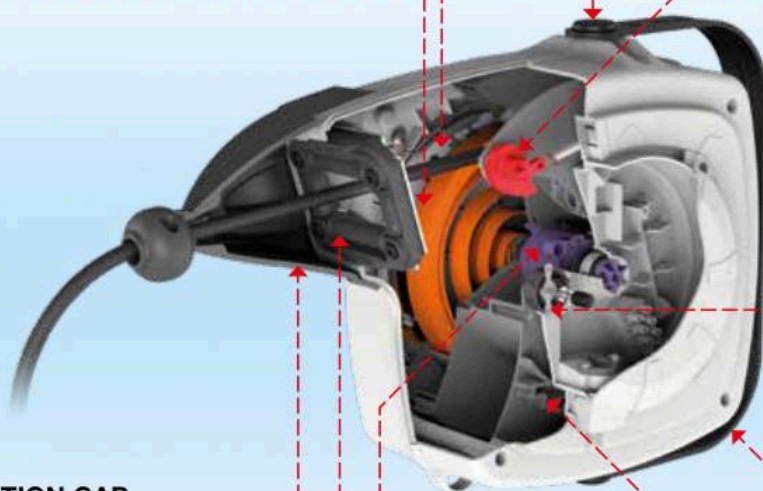
Sturdy and resistant with reinforced steel interior. Wide width which allows guiding the cable properly for correct rewind. Equipped with 4 rollers, 2 arranged horizontally and 2 arranged vertically.

ELECTRIC COLLECTOR

Replaceable in one single piece, it has sliding contacts each provided with 3 sliding lines to reduce the electrical resistance and the heating during operation.

STOPPING RACK

It has an increased width and reinforcement ribs ensuring greater durability and sturdiness. It offers the possibility to block the cable every 0,5 m.

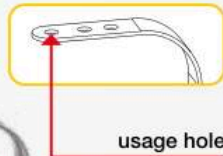




USE OF **ADJUSTABLE BRACKET**

POSITION

1



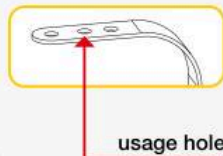
usage hole

The adjustable bracket of the cable reels may assume various positions:

The **position 1** is particularly suitable for "single" installation on the wall or ceiling. This position allows the rotation of the cable reels around the central axis supported by the bracket, allowing maximum flexibility to the operator in the use of the cable in all directions.

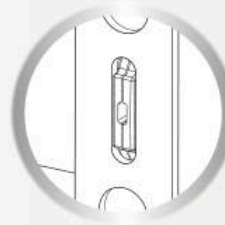
POSITION

2



usage hole

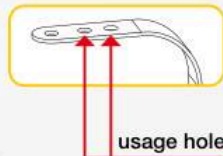
blocking system



The **position 2** is suitable for installation of the cable reels "in series" (ceiling wall/floor or bench) because the rotation is blocked by the bracket that creates an interlocking with the guards of the cable reels.

POSITION

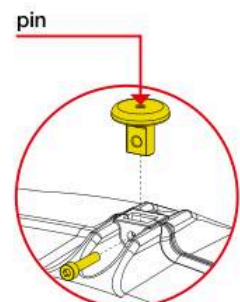
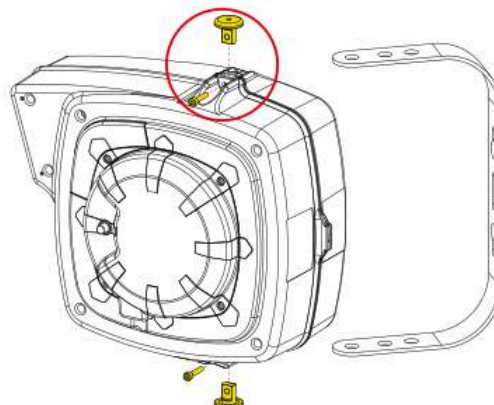
3



usage hole

The **position 3** is suitable for specific installation schemes, that is when the pulling and exit direction of the cable is parallel to the wall where the cable reels is installed.

In order to pass from an installation position to another it is necessary to remove the bracket.





PRESENTATION OF **ACCESSORIES**

REWINDING CLUTCH

Cable reels series 280 and series 290 can be equipped with a brake acting while rewinding the cable.

This accessory limits the maximum rotation speed making secure even accidental and uncontrolled rewinding.

The version with the clutch, is distinguished from the **"SPEED CONTROL"** plate.



PROTECTION CAP

P/N 728115

The **protection cap** of the cable guide, made of flexible black rubber, **prevents accidental entry of foreign bodies** and ensures to the cable reels the IP65 protection degree. **On request** it can be mounted on the cable reels you want to purchase using the appropriate customized code, see the following pages.

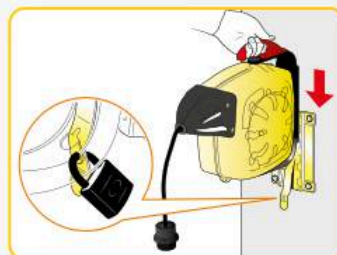
 For a correct use during the rewinding phase, is important to align the cable with the protection cap's axis.



BAYONET BRACKET

P/N 89003

A bracket with bayonet type quick coupling is available on request: (provided with wall bracket P/N 89001), it allows an easier movement of the cable reels in the various workstations.



To prevent removal or theft of the cable reels it is possible to secure it with a bolt or a lock.

P/N 89001

Wall bracket, to be bought separately in case you want to create multiple points for fitting the cable reels provided with bayonet bracket.



P/N 89003

P/N 89001

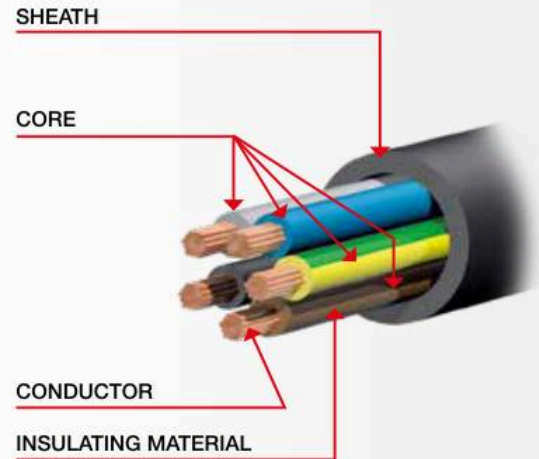


PRESENTATION OF ELECTRICAL CABLES

The denomination “**electrical cable**” indicates a **conductor uniformly insulated or a set of insulated conductors**, each from the others and towards the outside, combined into a single complex complete with protection covering.

THE CABLE IS MADE OF SEVERAL PARTS:

- the **metallic part** for conducting the current consists of a single wire or several stranded wires and their conductor;
- a layer of **insulating material** surrounds the conductor;
- the set of the conductor and its isolation constitutes the cable **core**; each cable may have more cores;
- the **sheath** has a protective function of the cable cores. The sheath in general is always in insulating material.



Technical table reading guide

NUMBER OF CONDUCTORS	Number of conductors uniformly insulated that make up the cross section of the electrical cable.
CONDUCTOR'S CROSS SECTION	Area (in mm ²) of the cross section of each conductor.
TYPE OF INSULATING MATERIAL	The type of material (e.g. PVC, natural rubber) acts as a protective covering to the conductor with mechanical or chemical protection function.

The following guidelines have been extracted from the Standard CEI 20-27

EXAMPLE OF POWER CABLE DESIGNATION



Number of conductors and conductor cross section (in mm²)

2 x 1 2 Conductors cable, cross section 1 mm²

3G x 1 3 Conductors, cross section 1 mm² each, one of them with yellow-green insulation

4G x 1 4 Conductors, cross section 1 mm² each, one of them with yellow-green insulation

5G x 1 5 Conductors, cross section 1 mm² each, one of them with yellow-green insulation

Reference Standards

H Cable conforming to Harmonized standards CENELEC (HD 22.4 S2)

A Cable of national type approved and listed in the supplements to the Harmonized standards CENELEC

xx - N Other type of national cable

Voltage rating

03 Rated insulation voltage $U_0/U = 300/300V$

05 Rated insulation voltage $U_0/U = 300/500V$

07 Rated insulation voltage $U_0/U = 450/750V$

1 Rated insulation voltage $U_0/U = 0,6/1KV$

Insulation material

B Ethylene propylene rubber

B3 Butyl rubber

J Braided fiberglass

M Mineral

N Polychloroprene (or equivalent material)

R Natural rubber or styrene-butadiene rubber

S Silicone rubber

V Polyvinyl chloride (PVC) commonly used

X Cross-linked polyethylene

Non-metallic sheath

B Ethylene propylene rubber

B3 Butyl rubber

J Braided fiberglass

M Mineral

N Polychloroprene (or equivalent material)

R Natural rubber or styrene-butadiene rubber

S Silicon rubber

V Polyvinyl chloride (PVC) commonly used

X Cross-linked polyethylene

Conductor form

F Flexible conductor of a flexible cable for mobile service

H Highly flexible conductor of a flexible cable for mobile service

K Flexible conductor of a cable for fixed installation

R Rigid conductor, round, stringed

S Rigid conductor, sectorial, stringed

U Rigid conductor, round, single-wire



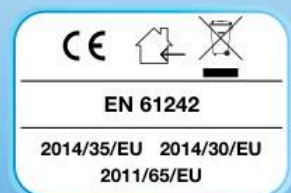




CABLE REELS SERIES 280

230 V SINGLE PHASE

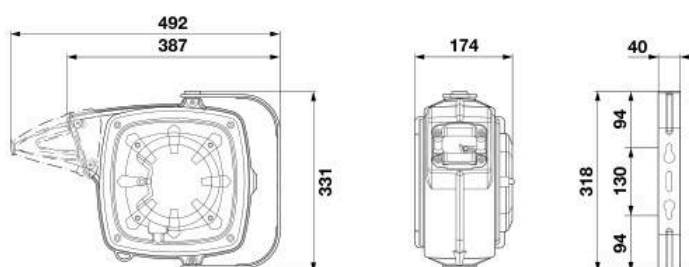
without socket



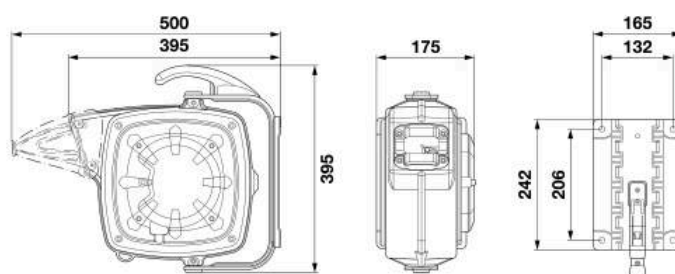
Colour:



Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
6,8 ÷ 7,4	40	440 x 195 x 485

Weight (Kg)	No. packages per pallet	Packaging (mm)
7,0 ÷ 8,8	40	440 x 195 x 485

Usage environment temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m

Protection degree of electrical parts



IP64 without protection cap IP65 with protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles

P/N standard	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
2210	2	2 x 1 - H05 VV-F	17 + 1 m	0,9 kW	1,4 kW	yes
3210	2	2 x 1 - H07 RN-F	12 + 1 m	0,9 kW	1,4 kW	yes
2215	2	2 x 1,5 - H05 VV-F	15 + 1 m	1,1 kW	2,3 kW	yes
2225	2	2 x 2,5 - H05 VV-F	10 + 1 m	1,9 kW	3,5 kW	yes
2310	3	3G x 1 - H05 VV-F	14 + 1 m	0,9 kW	1,4 kW	yes
3310	3	3G x 1 - H07 RN-F	10 + 1 m	0,9 kW	1,4 kW	yes
2315	3	3G x 1,5 - H05 VV-F	14 + 1 m	1,2 kW	2,3 kW	yes
3315	3	3G x 1,5 - H07 RN-F	9 + 1 m	1,2 kW	2,3 kW	yes
2325	3	3G x 2,5 - H05 VV-F	9 + 1 m	1,9 kW	3,5 kW	yes
3325	3	3G x 2,5 - H07 RN-F	7 + 1 m	1,9 kW	3,5 kW	yes

Articles WITH SPEED CONTROL

P/N with speed control	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
2210F	2	2 x 1 - H05 VV-F	17 + 1 m	0,9 kW	1,4 kW	yes
3210F	2	2 x 1 - H07 RN-F	12 + 1 m	0,9 kW	1,4 kW	yes
2215F	2	2 x 1,5 - H05 VV-F	15 + 1 m	1,1 kW	2,3 kW	yes
2225F	2	2 x 2,5 - H05 VV-F	10 + 1 m	1,9 kW	3,5 kW	yes
2310F	3	3G x 1 - H05 VV-F	14 + 1 m	0,9 kW	1,4 kW	yes
3310F	3	3G x 1 - H07 RN-F	10 + 1 m	0,9 kW	1,4 kW	yes
2315F	3	3G x 1,5 - H05 VV-F	14 + 1 m	1,2 kW	2,3 kW	yes
3315F	3	3G x 1,5 - H07 RN-F	9 + 1 m	1,2 kW	2,3 kW	yes
2325F	3	3G x 2,5 - H05 VV-F	9 + 1 m	1,9 kW	3,5 kW	yes
3325F	3	3G x 2,5 - H07 RN-F	7 + 1 m	1,9 kW	3,5 kW	yes

⚠ The following codes are considered devoid of accessories: protection cap - bayonet bracket.

★ The values are intended with cable completely unwound.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.

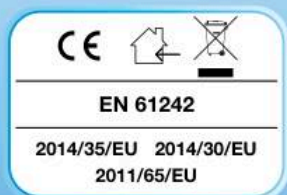




CABLE REELS SERIES 280

400 V THREE PHASE

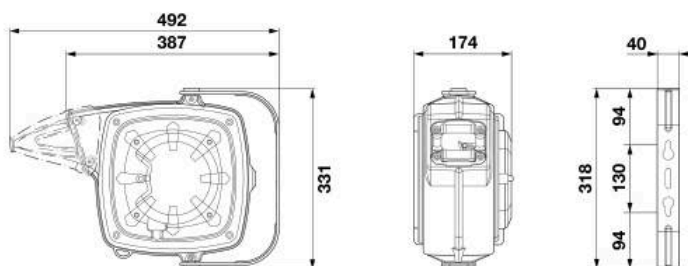
without socket



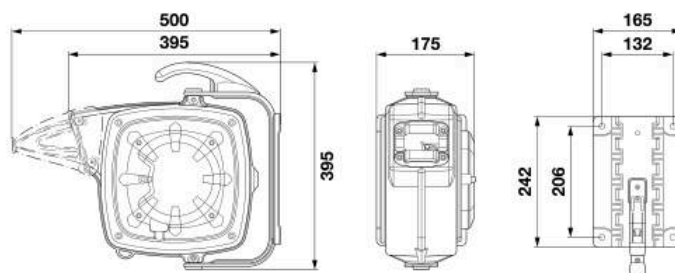
Colour:



Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
6,8 ÷ 7,4	40	440 x 195 x 485

Weight (Kg)	No. packages per pallet	Packaging (mm)
7,3 ÷ 9,3	40	440 x 195 x 485

Usage environment temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m

Protection degree of electrical parts



IP64 without protection cap IP65 with protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles

P/N standard	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
4410	4	4G x 1 - H05 VV-F	11 + 1 m	1,1 kW	2,3 kW	yes
4415	4	4G x 1,5 - H05 VV-F	10 + 1 m	1,4 kW	4 kW	yes
5415	4	4G x 1,5 - H07 RN-F	8 + 1 m	1,4 kW	4 kW	yes
4425	4	4G x 2,5 - H05 VV-F	8 + 1 m	2 kW	6 kW	yes
5425	4	4G x 2,5 - H07 RN-F	5 + 1 m	2 kW	6 kW	yes
4510	5	5G x 1 - H05 VV-F	11 + 1 m	1 kW	2,3 kW	yes
4517	5	5G x 1,5 - H05 VV-F	8 + 1 m	1,4 kW	4 kW	yes
5515	5	5G x 1,5 - H07 RN-F	7 + 1 m	1,4 kW	4 kW	yes



Articles WITH SPEED CONTROL

P/N with speed control	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
4410F	4	4G x 1 - H05 VV-F	11 + 1 m	1,1 kW	2,3 kW	yes
4415F	4	4G x 1,5 - H05 VV-F	10 + 1 m	1,4 kW	4 kW	yes
5415F	4	4G x 1,5 - H07 RN-F	8 + 1 m	1,4 kW	4 kW	yes
4425F	4	4G x 2,5 - H05 VV-F	8 + 1 m	2 kW	6 kW	yes
5425F	4	4G x 2,5 - H07 RN-F	5 + 1 m	2 kW	6 kW	yes
4510F	5	5G x 1 - H05 VV-F	11 + 1 m	1 kW	2,3 kW	yes
4517F	5	5G x 1,5 - H05 VV-F	8 + 1 m	1,4 kW	4 kW	yes
5515F	5	5G x 1,5 - H07 RN-F	7 + 1 m	1,4 kW	4 kW	yes

⚠ The following codes are considered devoid of accessories: protection cap - bayonet bracket.

★ The values are intended with cable completely unwound.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.

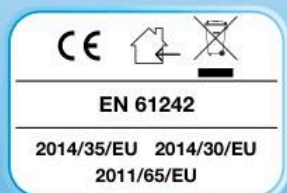




CABLE REELS SERIES 280

230 V SINGLE PHASE

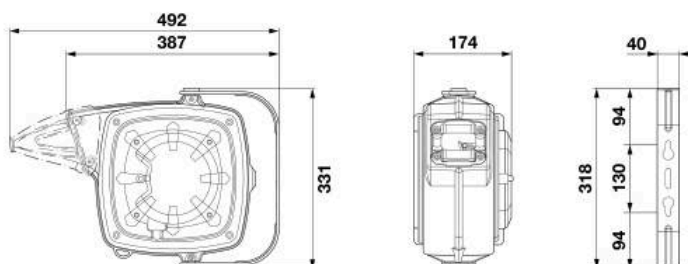
with one socket and Schuko plug IP44



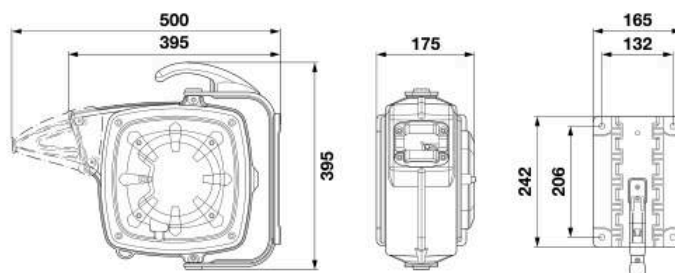
Colour:



Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
6,9	40	440 x 195 x 485

Weight (Kg)	No. packages per pallet	Packaging (mm)
8,2	40	440 x 195 x 485

Usage environment temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m

Protection degree of electrical parts



IP64 without protection cap IP65 with protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles						
P/N standard	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
2315S	3	3G x 1,5 - H05 VV-F	14 + 1 m	1,2 kW	2,3 kW	yes



Articles WITH SPEED CONTROL						
P/N with speed control	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
2315SF	3	3G x 1,5 - H05 VV-F	14 + 1 m	1,2 kW	2,3 kW	yes

⚠ The following codes are considered devoid of accessories: protection cap - bayonet bracket.

★ The values are intended with cable completely unwound.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.

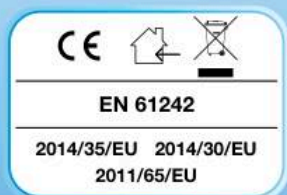




CABLE REELS SERIES 280

230 V SINGLE PHASE

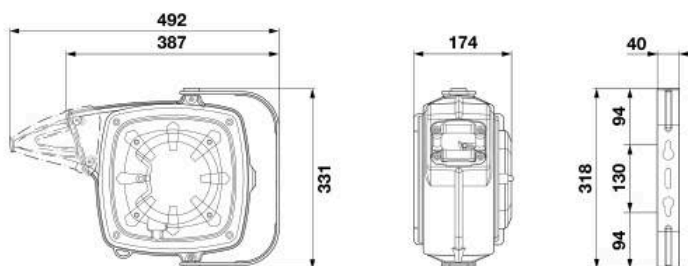
with triple socket and Schuko plug IP44



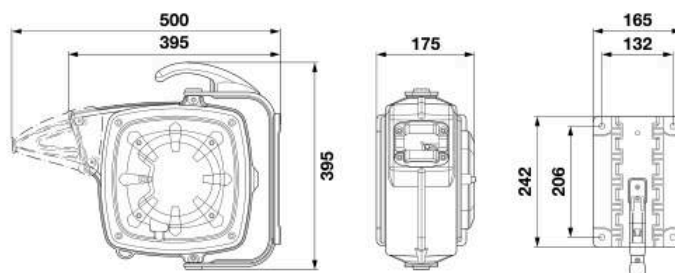
Colour:



Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
7,1	40	440 x 195 x 485

Weight (Kg)	No. packages per pallet	Packaging (mm)
8,4	40	440 x 195 x 485

Usage environment temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m

Protection degree of electrical parts



IP64 without protection cap

IP65 with protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles						
P/N standard	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
2315T	3	3G x 1,5 - H05 VV-F	14 + 1 m	1,2 kW	2,3 kW	yes



Articles WITH SPEED CONTROL						
P/N with speed control	Number of conductors	Cable type	Cable length (m)	Max. power use (20 °C)		Thermal protector
				Wound (kW)	Unwound (kW)*	
2315TF	3	3G x 1,5 - H05 VV-F	14 + 1 m	1,2 kW	2,3 kW	yes

⚠ The following codes are considered devoid of accessories: protection cap - bayonet bracket.

★ The values are intended with cable completely unwound.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.





LAMPS



LED LAMP SERIES L1224



FLUORESCENT LAMP SERIES F230 - F12 - F24



LAMPS PRESENTATION



RAASM, portable lamps are strong and ideal for use in many fields of application. The adjustable hook and magnetic support allow their correct positioning in any situation. Depending on the model, they emit yellow or white light without generating heat and guarantee a large area of uniform illumination that ensures a large visual field.

Main features:

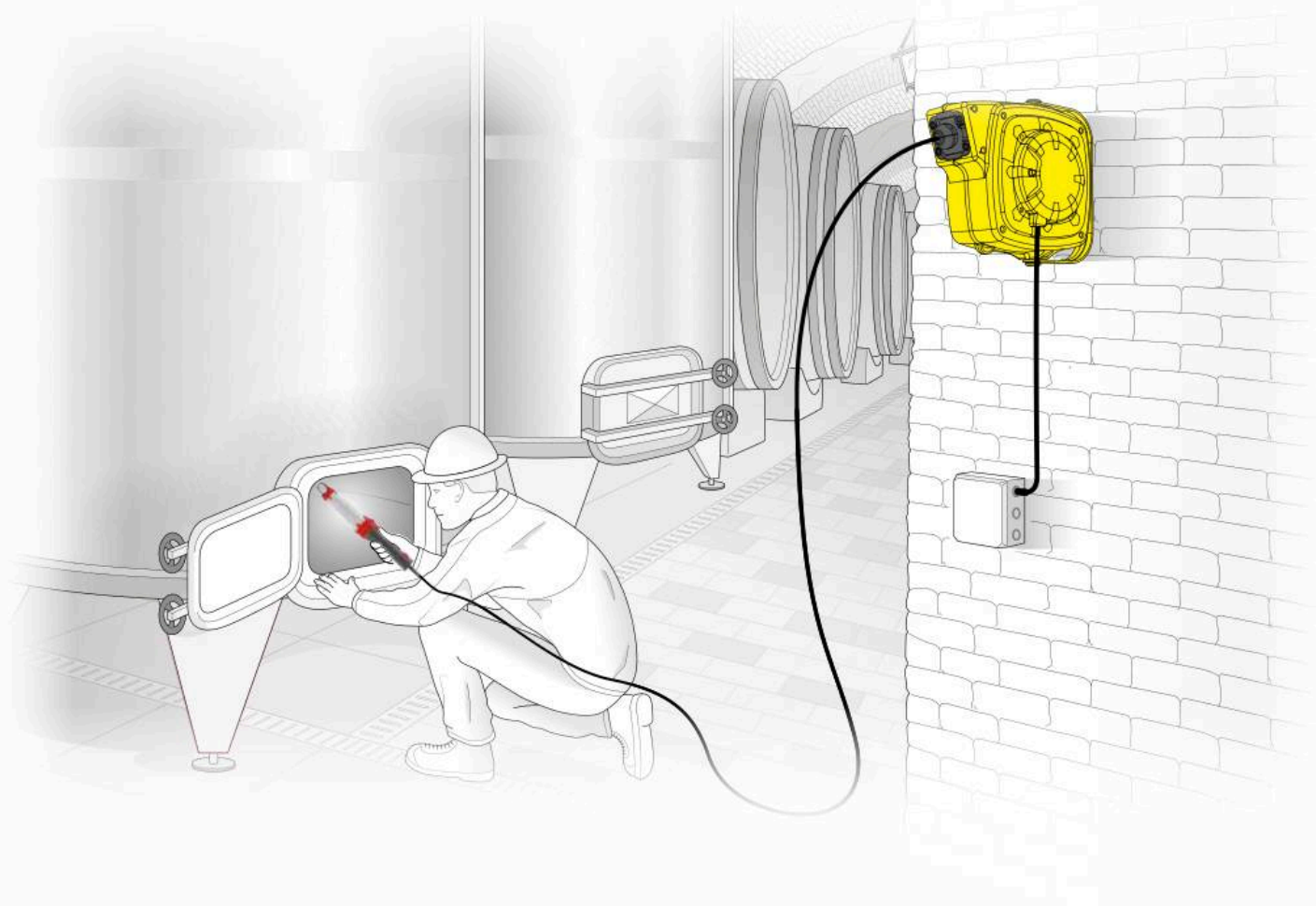
- Longer service life than a classic incandescent light bulb.
- Increased light output.
- Emits light at 5000 °K, comparable with the sun light (led version).
- Light diffusor to make uniform the led's beam.
- Lower heating.
- Lower energy consumption.
- Easy positioning thanks to the swivelling hook and the magnetic support.
- Switch protected from accidental actuation.
- Bicomponent non-slip handgrip.



The model with fluorescent lamp is supplied with light bulb.

Fluorescent portable lamp that fits only energy saving light bulbs E27 max 11 W.

WARNING



Technical Characteristics

TRANSPARENT PROTECTION COVER

In high resistance polymer, it protects the lamp from accidental shocks and against entry of dust, dirt and liquids. Replaceable screen.

FLUORESCENT LIGHT BULB 11 W

For voltages from 12 V DC a 24 V DC - 230 V AC - 50 Hz.
Series F280 - F12 - F24.



ADJUSTABLE HOOK

360° rotating, with locking loop device, allows to securely hook the lamp to various types of supports.

MAGNETIC SUPPORT

Integrated in the handgrip, allows the adhesion of the lamp to any surface.

PROTECTION FUSE

2 A, electrically protects the lamp from eventual short circuits.

PROTECTION DEGREE

IP65 - IK09.

HANDGRIP

In anti-skidding bicomponent, it allows a rapid and safe grip of the lamp.

LED HOLDER UNIT

For voltages from 12 V AC/DC a 24 V AC/DC. It includes 12 white LEDS (5000 °K) for a total of 3,6 W. Easily replaceable. Series L1224.





PORTABLE LAMP SERIES F230 - F12 - F24 supplied with fluorescent bulb



powered by:

- 12 V DC
- 24 V DC
- 230 V AC

SERIES F230



SERIES F12 - F24



Feed the lamp exclusively with the correct voltage. Using it with different voltages irretrievably damages the lamp, and invalidate any warranty.



ENERGY
SAVER



360°
SWIVELLING HOOK



PROTECTED SWITCH

Technical characteristics:

Magnetic support.

Transparent replaceable protection cover.

Anti-skidding grip.



Lamp protection degree



STANDARD Article

Fluorescent lamp P/N	Power supply voltage	Light bulb coupling	Max power (W)	Lamp protection degree	Light bulb supplied
F230	230 V AC - 50 Hz	E27	11	IP65	P/N 728001
F12	12 V DC	E27	11	IP65	P/N 728002
F24	24 V DC	E27	11	IP65	P/N 728003

⚠ The above-mentioned codes refer to the lamp supplied without cable.

⚠ All the models can be supplied with light bulbs belonging to energetic efficiency class B, A and A+ in accordance with European regulation EU 874/2012. Fluorescent light bulbs can be replaced only with same energetic efficiency class.

LIGHT BULBS AVAILABLE

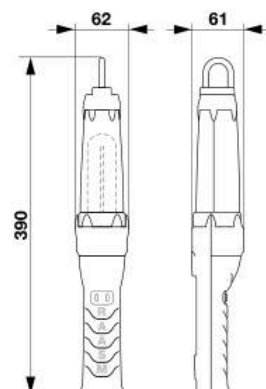
P/N 728001 Lamp 11 W 230 V AC - 50 Hz

P/N 728002 Lamp 11 W 12 V DC

P/N 728003 Lamp 11 W 24 V DC



Overall dimensions (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
0,6	40	525 x 135 x 80



PORTABLE LAMP SERIES L1224

supplied with led holder unit



powered by:
12 V ÷ 24 V AC/DC



Feed the lamp exclusively with the correct voltage. Using it with different voltages irretrievably damages the lamp, and invalidate any warranty.



ENERGY
SAVER



Technical characteristics:

Magnetic support.

Transparent replaceable protection cover.

Anti-skidding grip.



Lamp protection degree



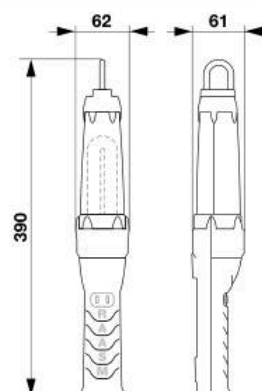
STANDARD Article

Led lamp P/N	Power supply voltage	N° of leds	Led holder unit power (W)	Lamp protection degree	Led holder unit
L1224	12 ÷ 24 V AC/DC	12	3,6	IP65	P/N 728005

⚠ The above-mentioned codes refer to the lamp supplied without cable.

⚠ All the models can be supplied with light bulbs belonging to energetic efficiency class A, A+ and A++ in accordance with European regulation EU 874/2012.

Overall dimensions (mm)



MODULO LED

Art. 728005

Kit led holder unit, with 12 leds each of 0,3 W. Led holder unit cannot be replaced by others available in the market.



Weight (Kg)	No. packages per pallet	Packaging (mm)
0,6	40	525 x 135 x 80



CABLE REELS SERIES 280

without transformer
with fluorescent portable lamp 11 W
series F230 - F12 - F24



SERIES F230



EN 61242 EN 60598

2014/35/EU 2014/30/EU
2011/65/EU EU 2019/2015

SERIES F12 - F24



EN 61242 EN 60598

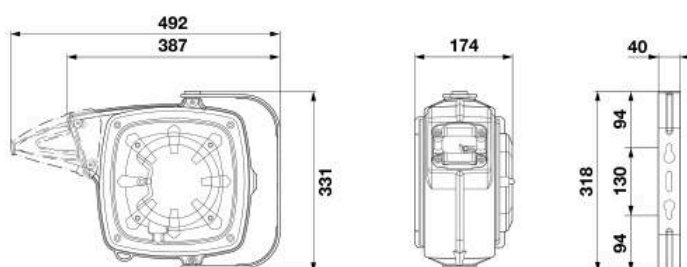
2014/35/EU 2014/30/EU
2011/65/EU EU 2019/2015



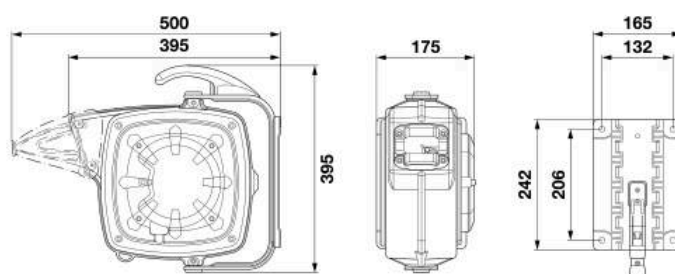
Colour:

 STANDARD  RAL 1004

Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	 No. packages per pallet	 Packaging (mm)
8,0	40	440 x 195 x 485

Weight (Kg)	 No. packages per pallet	 Packaging (mm)
9,3	40	440 x 195 x 485

**Usage environment
temperature:** -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m



Lamp protection degree



IP65

IK09

Protection degree of electrical parts



IP64 without
protection cap

IP65 with
protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles

P/N standard	Number of conductors	Cable type	Cable length (m)	Inlet voltage	Lamp (page 28)
2210F23	2	2 x 1 - H05 RN-F	14 + 1 m	230 V AC - 50 Hz	F230
2210F12	2	2 x 1 - H05 RN-F	14 + 1 m	12 V DC	F12
2210F24	2	2 x 1 - H05 RN-F	14 + 1 m	24 V DC	F24

Articles WITH SPEED CONTROL

P/N with speed control	Number of conductors	Cable type	Cable length (m)	Inlet voltage	Lamp (page 28)
2210F23F	2	2 x 1 - H05 RN-F	14 + 1 m	230 V AC - 50 Hz	F230
2210F12F	2	2 x 1 - H05 RN-F	14 + 1 m	12 V DC	F12
2210F24F	2	2 x 1 - H05 RN-F	14 + 1 m	24 V DC	F24

⚠ The following codes are considered devoid of accessories: protection cap - bayonet bracket.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.





CABLE REELS SERIES 280

without transformer

from 12 V to 24 V AC/DC

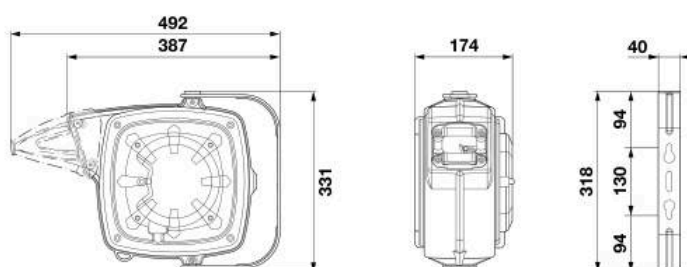
with led portable lamp series L1224



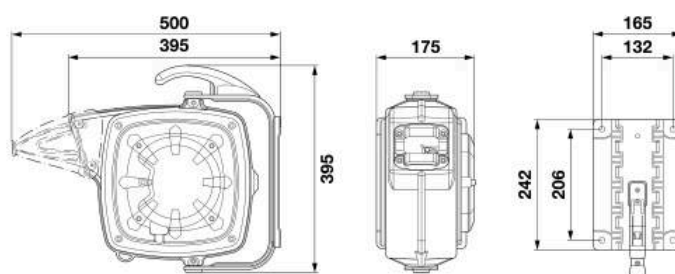
Colour:



Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
7,1	40	440 x 195 x 485

Weight (Kg)	No. packages per pallet	Packaging (mm)
8,4	40	440 x 195 x 485

Usage environment temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m

LED =  =  = 
3,6 W 11 W 50 W
360 LUMEN
5000 °K

Lamp protection degree



IP65

IK09

Protection degree of electrical parts



IP64 without
protection cap

IP65 with
protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles

P/N standard	Number of conductors	Cable type	Cable length (m)	Inlet voltage	Lamp (page 29)
2210L	2	2 x 1 - H05 RN-F	14 + 1 m	12 ÷ 24 V AC/DC	L1224

Articles WITH SPEED CONTROL

P/N with speed control	Number of conductors	Cable type	Cable length (m)	Inlet voltage	Lamp (page 29)
2210LF	2	2 x 1 - H05 RN-F	14 + 1 m	12 ÷ 24 V AC/DC	L1224

 The following codes are considered devoid of accessories: protection cap - bayonet bracket.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

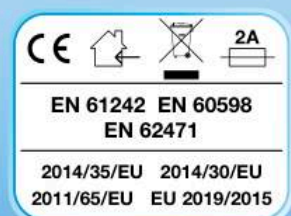
Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.





CABLE REELS SERIES 290

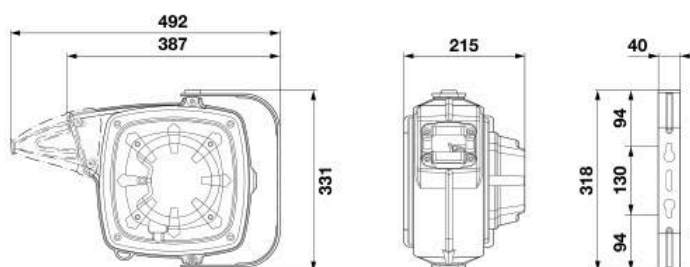
with transformer 230 V
with led portable lamp series L1224



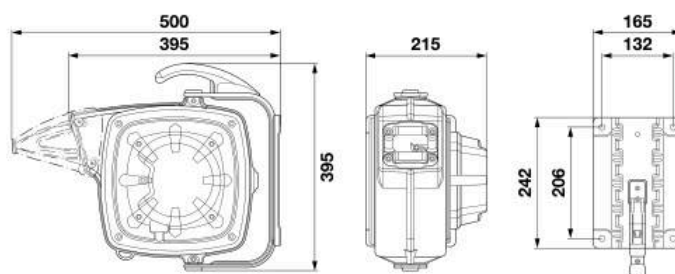
Colour:



Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
9,0	40	440 x 195 x 485

Weight (Kg)	No. packages per pallet	Packaging (mm)
10,4	40	440 x 195 x 485

Usage environment temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable

Cable inlet: 1,2 m

LED =  =  = 
3,6 W 11 W 50 W
360 LUMEN
5000 °K

Lamp protection degree



IP65

IK09

Protection degree of electrical parts



IP64 without
protection cap

IP65 with
protection cap

Attention: The system is downgraded depending on the IP value of the connected components.



STANDARD Articles

P/N standard	Number of conductors	Cable type	Cable length (m)	Inlet voltage	Lamp (page 29)
2210L	2	2 x 1 - H05 RN-F	14 + 1 m	12 ÷ 24 V AC/DC	L1224

Articles WITH SPEED CONTROL

P/N with speed control	Number of conductors	Cable type	Cable length (m)	Inlet voltage	Lamp (page 29)
2210LF	2	2 x 1 - H05 RN-F	14 + 1 m	12 ÷ 24 V AC/DC	L1224

 The following codes are considered devoid of accessories: protection cap - bayonet bracket.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.



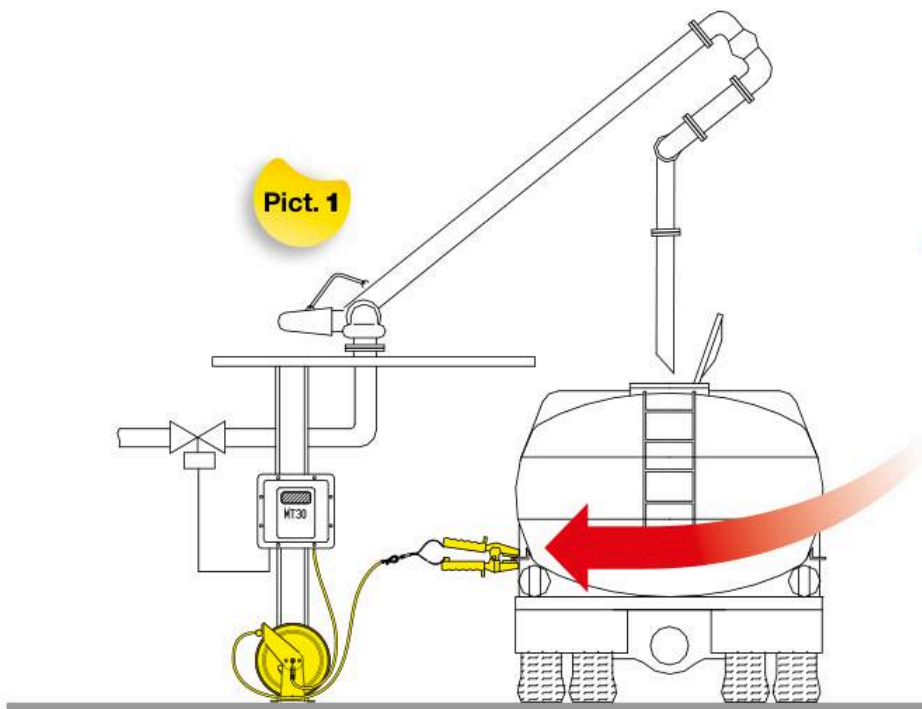


EARTHING CABLE REELS





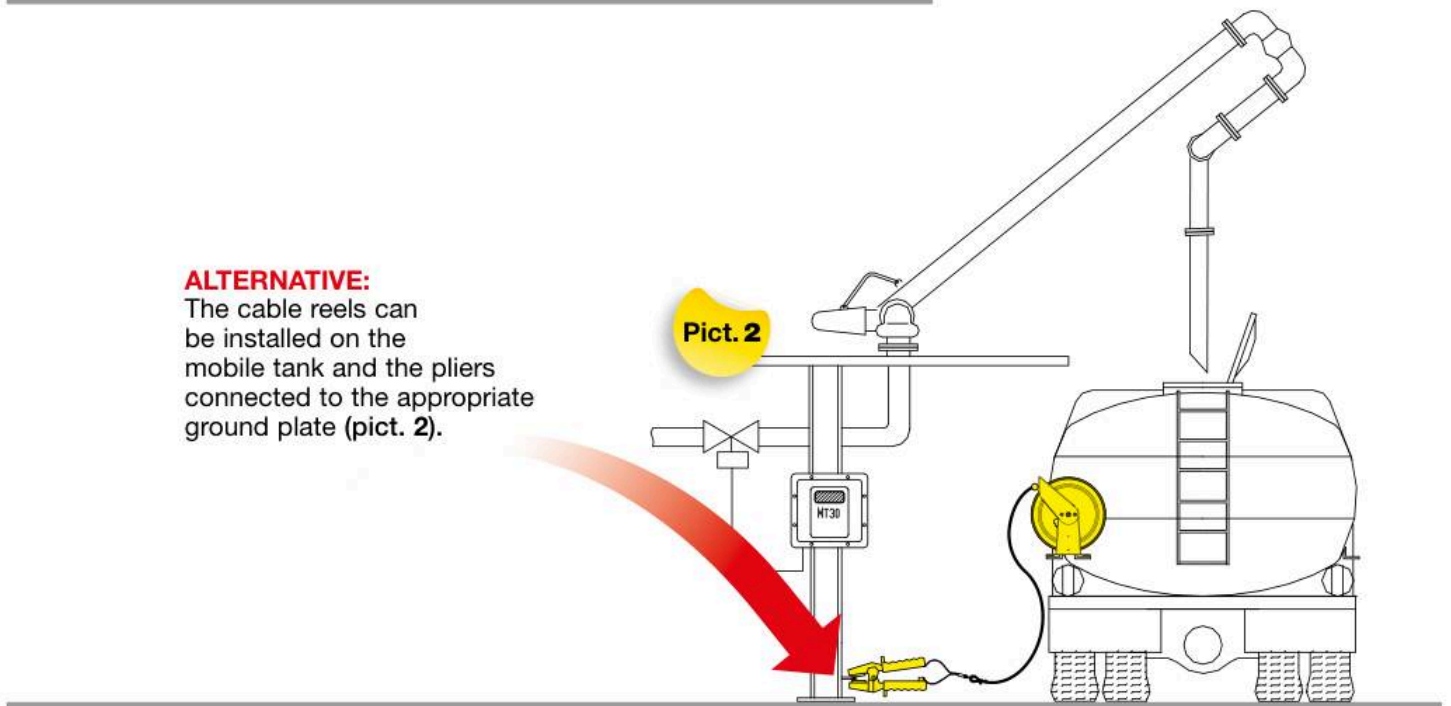
EARTHING CABLE REEL OPERATION



Pict. 1

FUNCTIONING:

The assigned operator, before performing the transfer of the fluids, must connect the clamp on the end of the cable to the proper connecting plate obligatorily foreseen on all portable tanks (pict. 1).



Pict. 2

ALTERNATIVE:

The cable reels can be installed on the mobile tank and the pliers connected to the appropriate ground plate (pict. 2).

The cable reel easily meets the need to ground the tanks containing flammable liquids during the operations of transfer in order to avoid the accumulation of dangerous electrostatic charges.

The cable reels series 350 is marked according to ATEX directive, category 3 (zone 2). The anti-deflagration pliers, standard on some models, can be placed instead in a potentially explosive area (zone 1) as indicated in the relative marking.



CABLE REELS SERIES 280

earthing covered in shockproof plastic material



CE

EN 61242

2014/35/EU 2014/30/EU
2011/65/EU

Colour:

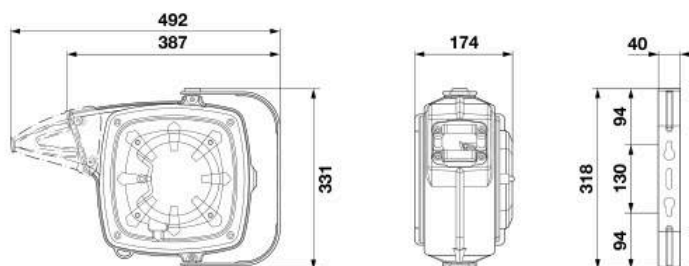


STANDARD

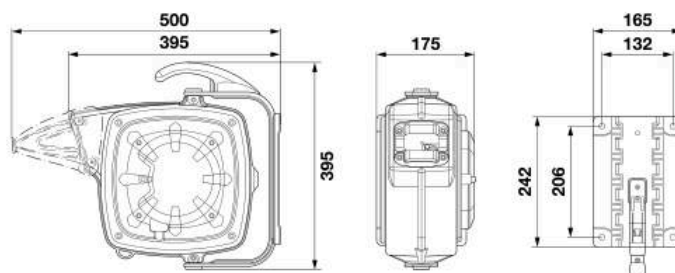


RAL 1004

Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	 No. packages per pallet	 Packaging (mm)
5,0 ÷ 9,0	40	440 x 195 x 485

Weight (Kg)	 No. packages per pallet	 Packaging (mm)
6,3 ÷ 10,3	40	440 x 195 x 485

Usage environment
temperature: -5 ÷ +40 °C

Fixing bracket:
 Fixed-Adjustable

Cable inlet: 1,2 m

Protection degree of electrical parts



IP64 without protection cap IP65 with protection cap

Attention: The system is downgraded depending on the IP value of the connected components.

EARTHING PLIERS

100 A



P/N 735111

50 A



P/N 735112

10 A



ANTI-DEFLAGRATION



STANDARD Articles

P/N standard	Number of conductors	Cable type	Cable length (m)	Cable inlet (m)	Earthing pliers
1065	1	1 x 6 - H07 V-K	15 + 1	1,2	without
1161	1	1 x 16 - H07 V-K	10 + 1	1,2	without
1065P	1	1 x 6 - H07 V-K	15 + 1	1,2	P/N 735112
1161P	1	1 x 16 - H07 V-K	10 + 1	1,2	P/N 735111
1064P	1	1 x 6 - PUR	14,5	1,2	anti-deflagration

Articles WITH SPEED CONTROL

P/N with speed control	Number of conductors	Cable type	Cable length (m)	Cable inlet (m)	Earthing pliers
1065F	1	1 x 6 - H07 V-K	15 + 1	1,2	without
1161F	1	1 x 16 - H07 V-K	10 + 1	1,2	without
1065PF	1	1 x 6 - H07 V-K	15 + 1	1,2	P/N 735112
1161PF	1	1 x 16 - H07 V-K	10 + 1	1,2	P/N 735111
1064PF	1	1 x 6 - PUR	14,5	1,2	anti-deflagration

⚠ The following codes are considered devoid of accessories: protection cap - bayonet bracket.

ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 728115

Protection cap, made of oil resistant rubber is useful against the accidental entry of water or foreign objects inside the cable reels.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.





CABLE REELS SERIES 350

earthing, open with painted steel drum



In accordance with directive



Colour:



Usage environment
temperature: $-5 \div +40$ °C

Fixing bracket: Fixed

Cable inlet: 1,2 m

EARTHING PLIERS

10 A



ANTI-DEFLAGRATION

50 A



P/N 735112

100 A



P/N 735111 (available on request)

STANDARD Articles

STANDARD Articles						
P/N standard	Type of cable	Cable conductor material	Cable conductor insulation	Cable length (m)	Earthing clamp	
					P/N	Ampere
735000	without cable	cable capacity max. 30 m - section 16 mm²			-	-
735131.60141	1 x 6	copper (green-yellow cable)	PUR	14,5 m	explosion-proof	10
735131.60261	1 x 6	copper (green-yellow cable)	PUR	26 m	explosion-proof	10
735131.60152	1 x 6	copper (green-yellow cable)	PUR	15 m	735112	50
735131.60252	1 x 6	copper (green-yellow cable)	PUR	25 m	735112	50
735141.60152	1 x 7	steel (orange cable)	PVC	15 m	735112	50
735141.60252	1 x 7	steel (orange cable)	PVC	25 m	735112	50

Technical Characteristics

CABLE GUIDE

Large omnidirectional cable guide with 4 rollers, horizontal and vertical, to reduce cable wear and facilitate sliding.

MULTI POSITION ARMS

Cable outlet position can be changed manually by modifying the installation of the arms.

CABLE REELS DRUM

Sturdy and practical with ribs and rounded edges.

CABLE CLAMP PAD

Adjustable.

EARTHING CLAMP

3 types of clamps available: 50 A, 100 A and 10 A, explosion-proof.

STOP RACK

Makes it possible to lock the cable around every 0,5 m.

SPRING

Tested to withstand over 20000 work cycles.

PAWL

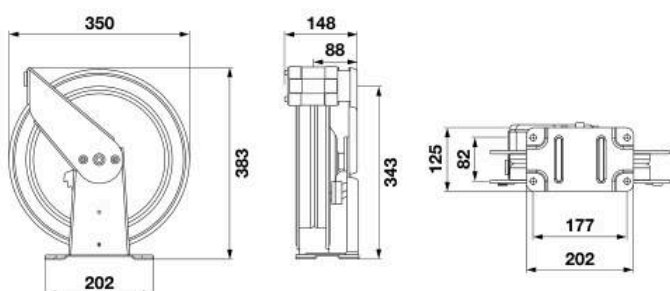
Easy to remove for maintenance or when the work requires free sliding.

FIXING BRACKET

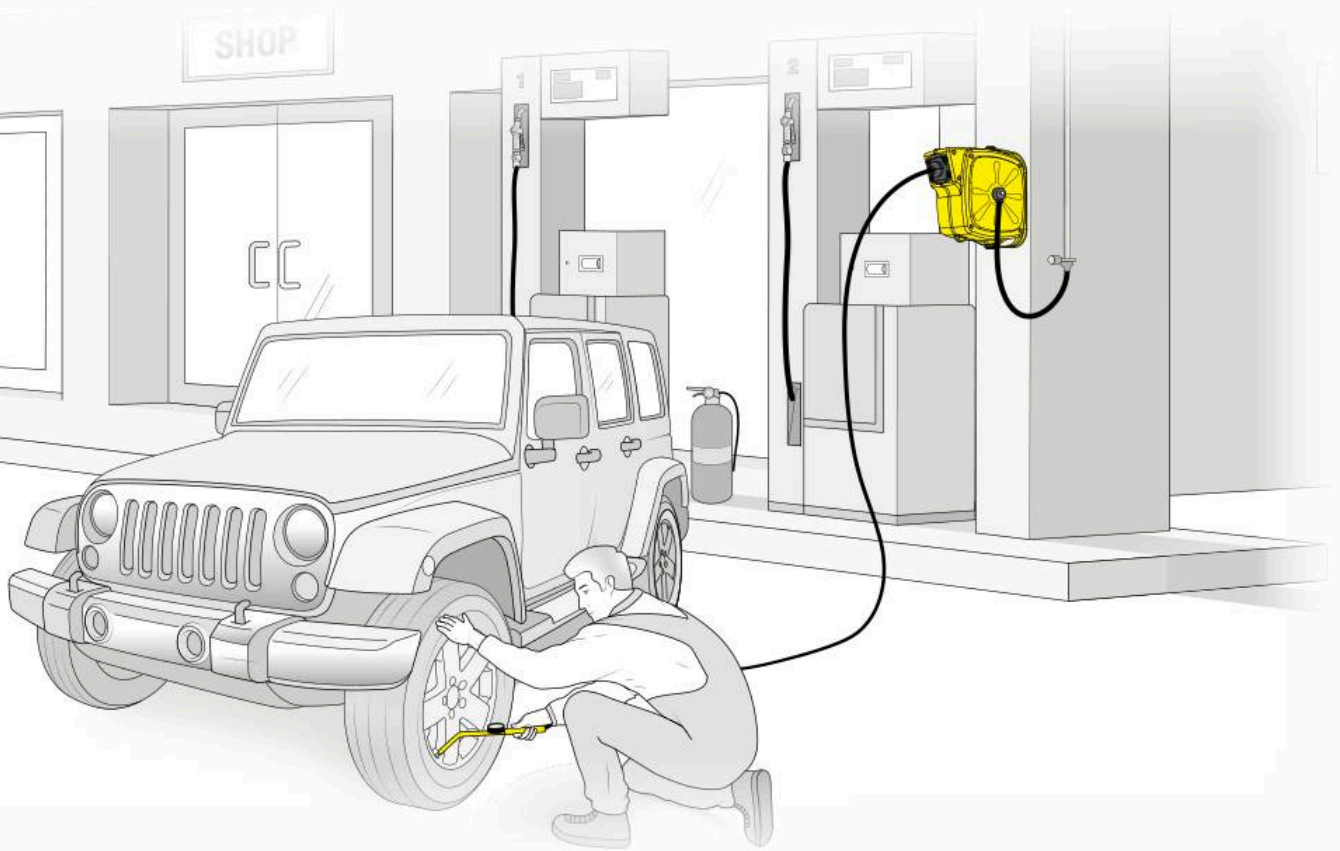
Fixed, has 4 holes for safe, easy installation.

EARTHING CONNECTION

Overall dimensions **STANDARD** (mm)



Weight (Kg)	No. packages per pallet	Packaging (mm)
12,3 ÷ 14,1	36	390 x 188 x 403



Technical Characteristics

REWINDING CLUTCH

Optional, devoid of complex and potentially wearing kinematic motions, allows the rewinding of the drum at a safe speed.

SIDE CLUTCH

The bracket is equipped with a special clutch that controls the rotational speed on the right and on the left of the hose reels.

HOSE GUIDE WITH ROLLERS

Sturdy and resistant with reinforced steel interior. Wide width which allows to guide properly the hose for correct rewind. Equipped with 4 rollers, 2 arranged horizontally and 2 arranged vertically.

PAWL

Easy to remove for maintenance or when the work requires free sliding.

ENTRY ARTICULATION

With internal passage properly sized to the used pipes. The 90° fitting can be oriented in eight different positions, 45° equitably spaced to facilitate the connection of the inlet hose (supplied).

HOSE

Polyurethane hose with hose stop pad and outlet articulation that ease the use of the pneumatic equipment (inflating guns, screwers, etc.) to which it is connected.

STOPPING RACK

It has an increased width and reinforcement ribs ensuring greater durability and sturdiness.

SPRING

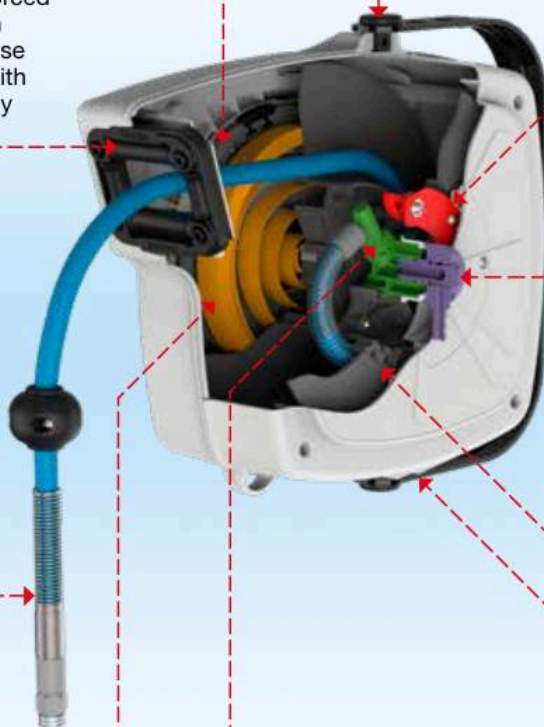
Rewinding spring totally protected from the external environment. The spring is subjected to a durability test of 20000 cycles (each cycle corresponds to the complete unwinding and rewinding of the hose) thus simulating an average life of over 10 years.

FITTINGS AND CENTRAL PIN

Built in suitable material to withstand harsh products (Delrin®) and with passages dimensioned to avoid flow resistance.

FIXING BRACKET

Adjustable up to 90° per side, of a sturdy structure with loop fixing holes that facilitate wall mounting.





HOSE REELS SERIES 280

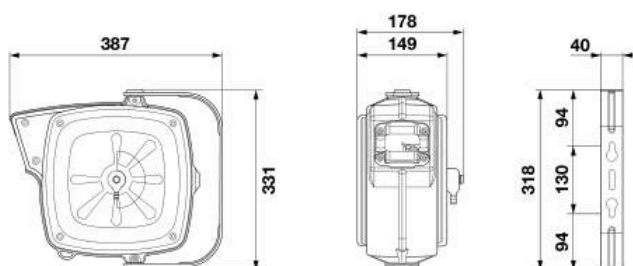
Air-Water - 20 bar - 40 °C
enclosed in shockproof plastic material



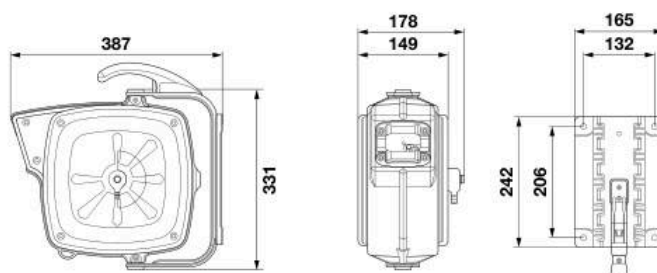
Colour:

 STANDARD  RAL 1004

Overall dimensions **STANDARD** (mm)



Overall dimensions **WITH BRACKET** (mm)



Weight (Kg)	 No. packages per pallet	 Packaging (mm)
6,0 ÷ 7,9	40	470 x 260 x 490

Weight (Kg)	 No. packages per pallet	 Packaging (mm)
7,3 ÷ 9,2	40	470 x 260 x 490

Usage environment
temperature: -5 ÷ +40 °C

Fixing bracket:
Fixed-Adjustable



STANDARD Articles

P/N standard	Hose length and ø	Coupling		Hose working temperature min/max
		inlet	outlet	
92808.101	10 m - 8 x 12 mm (971.110)	G 3/8" (m)	G 1/4" (m)	-15 ÷ +65 °C
92808.102	14 m - 8 x 12 mm (971.114)	G 3/8" (m)	G 1/4" (m)	-15 ÷ +65 °C
92808.105	8 + 1 m - 10 x 14,5 mm (972.109)	G 3/8" (m)	G 3/8" (m)	-15 ÷ +65 °C

Articles WITH SPEED CONTROL

P/N with speed control	Hose length and ø	Coupling		Hose working temperature min/max
		inlet	outlet	
92848.101	10 m - 8 x 12 mm (971.110)	G 3/8" (m)	G 1/4" (m)	-15 ÷ +65 °C
92848.102	14 m - 8 x 12 mm (971.114)	G 3/8" (m)	G 1/4" (m)	-15 ÷ +65 °C
92848.105	8 + 1 m - 10 x 14,5 mm (972.109)	G 3/8" (m)	G 3/8" (m)	-15 ÷ +65 °C

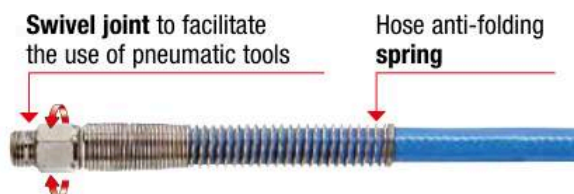
⚠ The following codes are considered devoid of bayonet bracket.

EQUIPPED WITH:

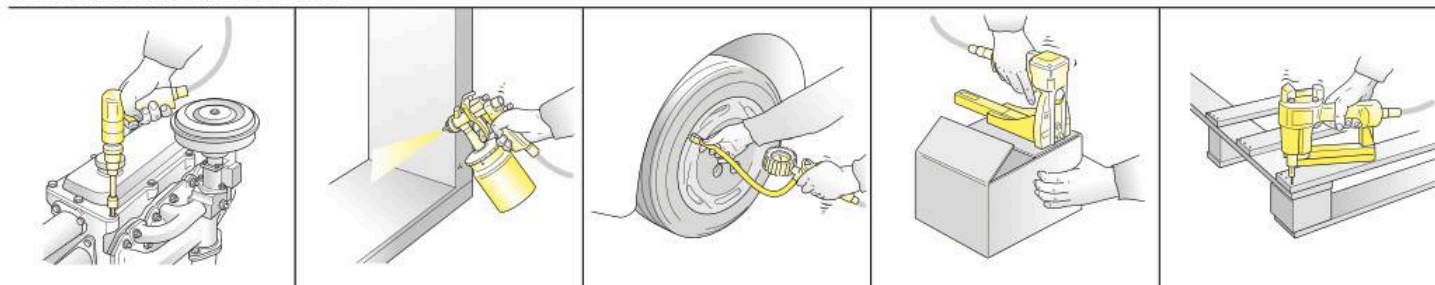
- hose outlet with swivel joint;
- polyurethane hose (blue) with protection spring on fittings;
- galvanized steel fittings;
- brass joint;
- seals in Viton®;
- length in entrance 1,5 m.



OUTPUT HOSE DETAIL



SOME EXAMPLES OF USE



ACCESSORIES

SPEED CONTROL

The version equipped with a clutch that allows a cable rewinding at a controlled rate, is characterized by the plate.



P/N 89003

Bayonet bracket, it allows an easier movement of the cable reels in the various workstations. For the use of the adjustable bracket see page 13.

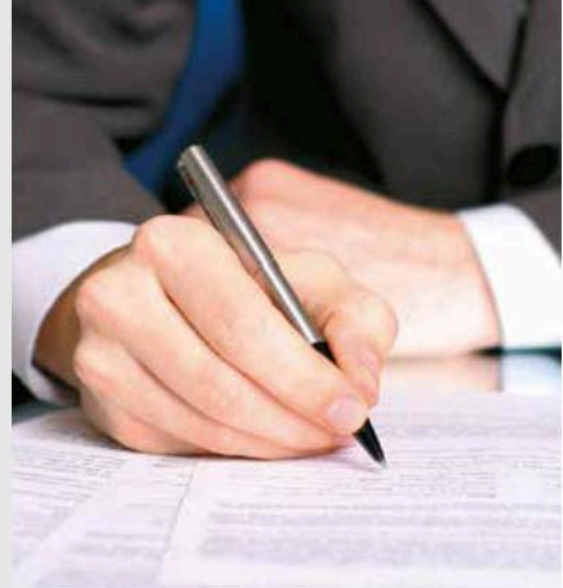


P/N 89001

Wall bracket, to buy separately in case you want to create multiple points for fitting the hose reel provided with bayonet bracket.



PRODUCT CUSTOMIZATION



RAASM offers the opportunity to order the products of its production in **2 different colours**.

The customer **without the constraints of minimum quantity, nor additional costs**, can request the colour **choosing from the proposed range**.

This customization concerns only the colour and **does not include**: instruction booklets, labels, brands, etc. **Delivery times for the colour that is not standard may vary**.

Different colours, in addition to those available or other customizations, must be valued each time and will be bound to minimum quantities and additional costs.

AVAILABLE COLOURS

The products for which a customized colour is not specified, are supplied with standard grey colour as per catalogue.

STANDARD COLOUR	AVAILABLE COLOURS
RAL 7035 	RAL 1004 

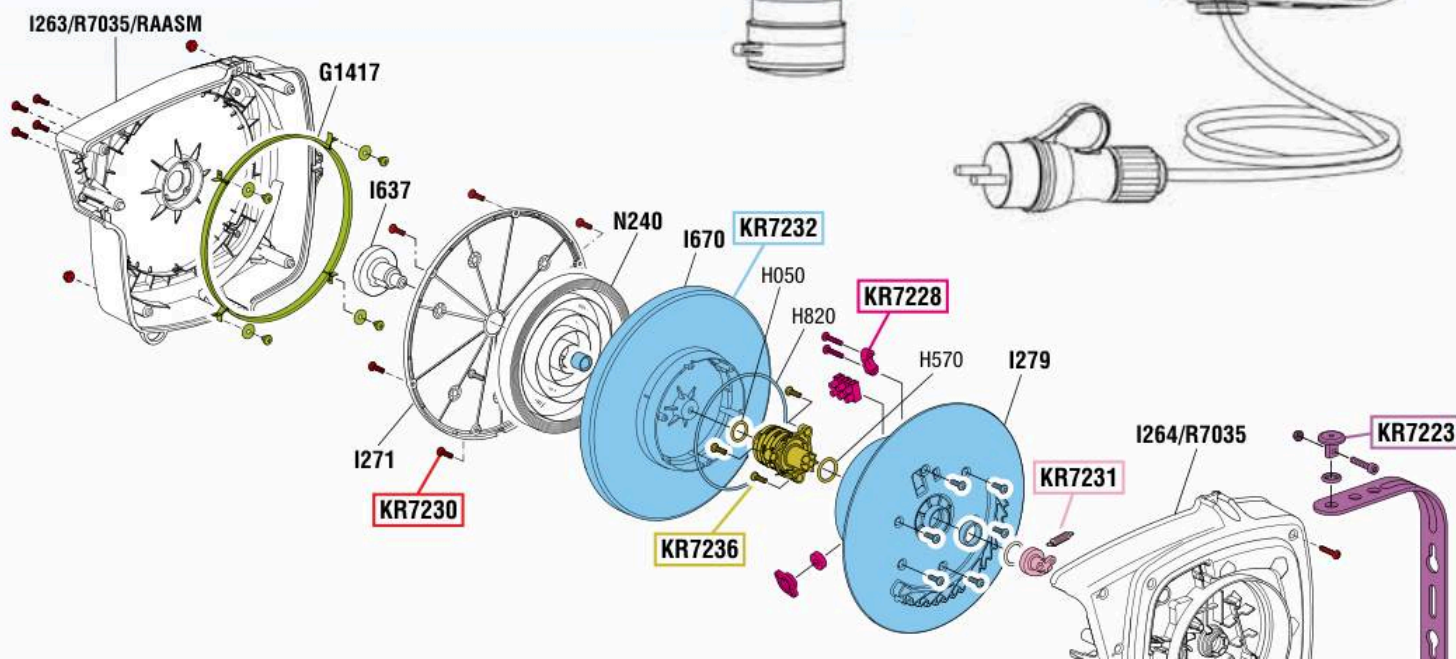
To order an item with a **different colour from the standard**, it is necessary to add the suffix:
/C2 for yellow colour **RAL 1004**.



ORIGINAL

spare parts

Always choose RAASM
original spare parts.



GENERAL SALES CONDITIONS

FOR FOREIGN MARKETS



The following general sales conditions regulate the sale of goods and services by the company RAASM S.p.A. for customers residing outside the territory of the Italian State.

Art. 1 GOODS DELIVERY TERMS

The goods are delivered ex works RAASM S.p.A. The subsequent transport/shipment must occur by, in the name and at the expense of the purchasing customer, even by means of a carrier appointed and designated by the same. All risks arising from loading, subsequent custody and transport are borne entirely by the purchasing customer.

Art. 2 MINIMUM ORDERS

Each order cannot be for less than € 1,500.00, net of fees, taxes, customs duties, discounts and rebates and any other charges not included in the price of the goods. If, at the option of RAASM S.p.A., orders for lower amounts are accepted, an extra charge of € 155,00 shall be applied for order management administrative expenses.

Art. 3 ACCESSORIES

All the accessories given in the price list (plugs, oil bar taps, oil guns, grease guns, probes, protection caps, clutches, swivelling supports, etc.) are supplied exclusively for fitting to or combining with the items RAASM S.p.A. produces

Art. 4 COMPLAINTS

Any defects immediately noticed after a brief inspection of the goods (damage, shortages or different product from that ordered) must be notified in writing to our company within 8 (eight) days of receipt the goods. Any defects in the product noticeable only during its use must be notified in writing to RAASM S.p.A. within 8 (eight) days of being detected.

Any returns of goods must be authorized in advance by RAASM S.p.A. and freight charges are at the customer's expenses.

Art. 5 DELIVERY TIMES/TERMS

Delivery times and dates are only approximate and are subject to change. Any delays in delivery do not entitle the customer to cancel the order or claim compensation for damages caused by delay of delivery. Delivery times for urgent orders must be agreed directly with RAASM S.p.A. RAASM S.p.A. has the right not to carry out the order and/or totally or partially carry it out, without this giving rise to reimbursement or claims for compensation for damage.

Art. 6 PACKS AND PACKAGING

Packaging costs are included in the price, except for special packing, which shall be charged at cost.

Art. 7 PRICES

The current Price list cancels and replaces the previous price list. In the event of changes to our price list and/or individual items, the goods shall be forwarded at the price in force on the day of the order confirmation. The price list and/or the prices of individual items can be changed even without notice, according to the changes in market conditions or technical innovations/modifications made to the product. The prices are understood to be ex works RAASM S.p.A.

Art. 8 PAYMENTS

Payments must be made exclusively to RAASM S.p.A. at the agreed conditions. Under no circumstances will deductions or roundings be accepted. In case of late payment with respect to the agreed conditions, RAASM S.p.A. reserves the right to charge interest at the current rate, effective from the day after that agreed for payment, plus any additional expenses. Discounts conditional on the payment term and already credited shall be recharged.

Art. 9 WARRANTY

RAASM S.p.A. provides each product with the communication of particular instructions for the installation, use and maintenance requirements and the need to carry out possible checks on the product. All the technical information and data mentioned in the catalogue and in the price-list in force are not binding and can be changed without prior notice for the purpose of improving the quality of the products. All products manufactured by RAASM S.p.A. are guaranteed for a period of 5 (five) years from the date of delivery to the first user. The user must keep and show the sales invoice - or an equivalent document - together with the item's serial number in order to make a claim under the RAASM S.p.A. guarantee. The 5 (five) year guarantee does not apply to components which are subject to normal wear and tear (such as gaskets, diaphragms, O-rings, hoses, etc.), electronic components and items that are sold but not manufactured by RAASM S.p.A. (marked with a red asterisk in the current product catalogue) which are guaranteed for 1 (one) year from the date of delivery to the first user.

1 (one) year warranty is valid also for the following products:

- digital litre counters and FCS system;
- cable reels;
- electric, pneumatic or hydraulic motor supplied with our industrial hose reels S. 600 and 700.

Incorrect installation, use or maintenance of the product shall void the warranty. Upon written notice, the articles must be returned free to our Factory for checking and acceptance. In any case, the guarantee expires in the 10th year from the date of manufacture (indicated by the serial number), if the stated expiry takes place before the expiration terms indicated above (1 or 5 years from delivery to the first user).

The manufacturer declines any responsibility for possible inaccuracies contained in this catalogue, due to printing or transcription errors. The manufacturer reserves the right to make any changes or improvements of a functional, technical or aesthetic nature without prior notice.

RAASM

Art. 10 RESPONSIBILITY

RAASM S.p.A. is exempt from any responsibility and liability for accidents that may occur to persons and property, as a result of or during the use of the equipment, due to or depending on the same whenever the products have been damaged during transport, tampered with or modified, or improperly used, or stored, installed, protected and preserved without complying with the instructions of RAASM S.p.A. as given in the installation, use and maintenance instruction manuals for each product. RAASM S.p.A. is liable for the value for the supplied product and cannot be held responsible in any way for other possible costs or additional costs that the customer may bear.

Art. 11 CONFIDENTIALITY

Information not in the public domain that is exchanged in the execution of the contract is subject to the obligation of confidentiality, secrecy and security; said information is covered as an industrial secret and is of a confidential and reserved nature and may not be disseminated to third parties; its use is permitted exclusively and strictly to execute the supply contract.

Art. 12 INTELLECTUAL PROPERTY RIGHTS

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Art. 13 INFORMATION ON THE PROCESSING OF DATA PURSUANT TO ITALIAN LEGISLATIVE DECREE 196/2003

In accordance with article 13 of Italian Legislative Decree 196/2003 - Personal Data Protection Code - you are hereby advised that the processing of the personal data, provided with the purchase of goods or services and/or the supply of goods or services is solely for the purposes of carrying out the contract-based obligations and to comply with the specific requests from customers/ suppliers, as well as adhering to legislative obligations, in particular accounting and tax obligations or to respect orders issued by public authorities or to exercise a right in court. The data shall also be used for commercial statistics for corporate use and to obtain commercial information on our products and services if expressly authorised by the applicant. The processing of data shall be done using hard-copy and computerised procedures, in the manner and within the limits necessary to achieve the aforementioned purposes. Data may be communicated and processed by other companies in the Group for the same specified purposes, and may be made known to employees of our company, consultants and other suppliers, always and exclusively within the limits of the aforementioned purposes. The provision of data is mandatory for the correct execution of the contract and pre-contract based obligations, and failure to do so could result in it being impossible to fully comply with contractual obligations, and make it impossible to provide updates on the new products and services offered by our company. Data shall be processed for the duration of the contract relationship in place and subsequently to fulfil any legal formalities.

Art. 14 RIGHTS OF DATA SUBJECTS

The information is aimed at defining the limits and methods for the processing of data, based on which individual customers and/or suppliers may freely authorise the collection and subsequent use of data. Data subjects are entitled to the rights pursuant to article 7 of the aforementioned Code and in particular, the right to access their personal data, ask for the amendment, update and cancellation thereof, if incomplete, incorrect or collected in violation of the law, and may object to the processing for legitimate reasons, addressing requests in this regard to RAASM S.p.A. Pursuant to the same article the data subject also has the right to request the complete and updated list of the Data Supervisors, and to ask for the cancellation, transformation into anonymous form or blocking of data processed in violation of the law, and to oppose in any case, for legitimate reasons, the processing thereof.

To exercise these rights, and in the case of problems or any requests for clarification regarding what has been explained herein, kindly address these to RAASM S.p.A. - Via Marangoni, 33, Cassola (VI) - Italy or to the following email address: info@raasm.com.

Art. 15 DATA CONTROLLER

The Data Controller is RAASM S.p.A. with registered office at Via Marangoni 33, Cassola (VI) – Italy, and this is where the data processing shall take place.

Art. 16 COMPETENT LAW COURT

Any disputes shall be settled by the Law Court of Vicenza, Italy.

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Lined area for writing notes.



Company with quality,
environment and safety system
according to ISO 9001:2015,
ISO 14001:2015 and
ISO 45001:2018 standards

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