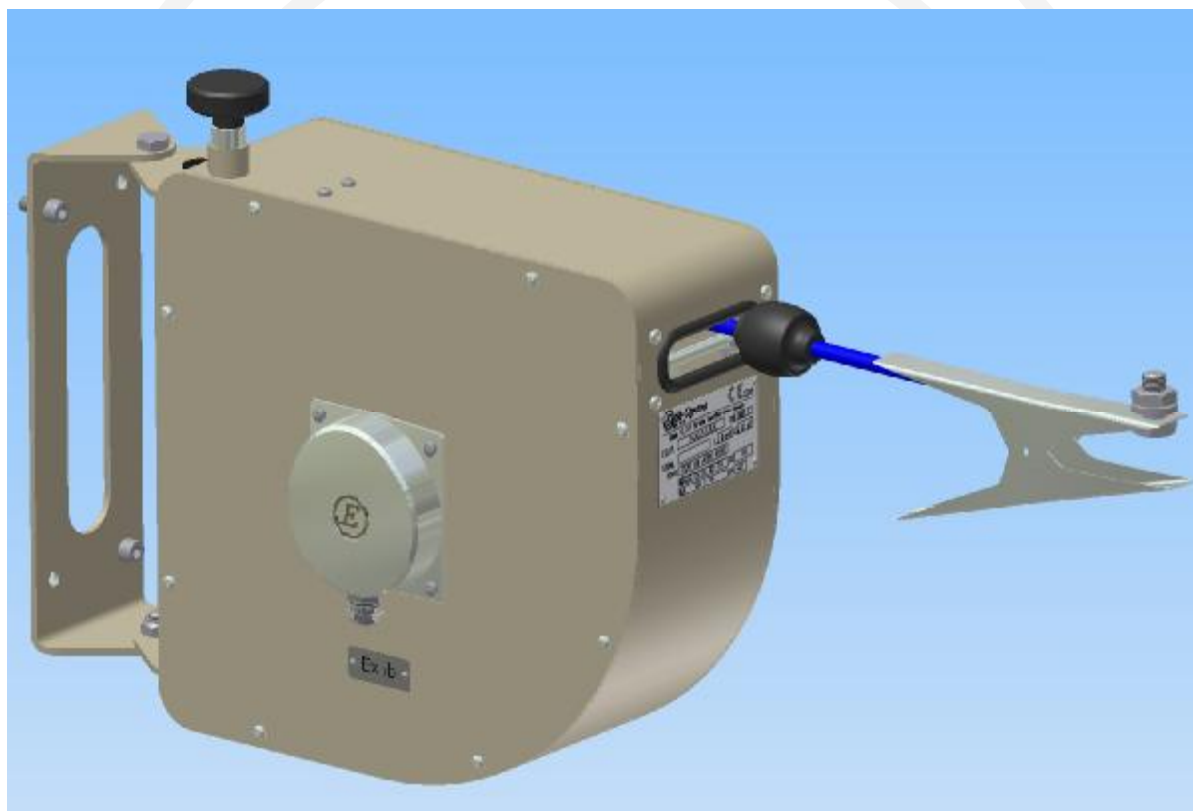


OPERATING INSTRUCTIONS

Self-retracting Reel SREX 1.Y



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1. General description

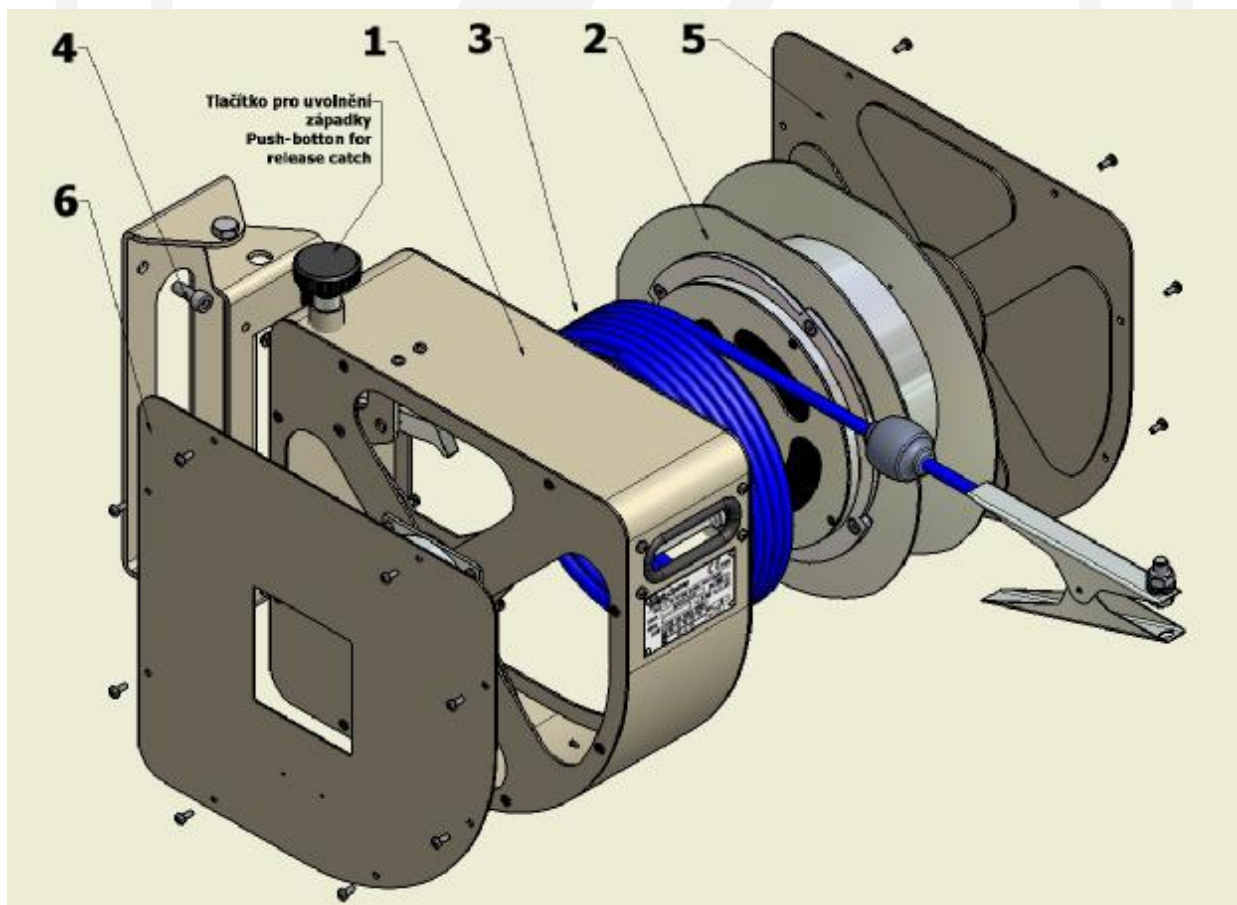
Self-retracting reel SREX 1.Y (where Y is a variable complementary mark for design marking, it has not influence on explosion-proof device) is used together with earthing blocks of UZCL 3.d; 4.d; 5.d; 6.d and EGT 4, EGT 6 type series. Its design enables use of the reel in the areas with explosion risk. Protection type is indicated in the technical parameters of this manual and also on the name plate of the reel.

The reel was manufactured in accordance with requirements of the following standards:


EN 13463-1, EN 13463-5, EN 60079-0, EN 60079-11

Self-retracting reel SREX 1.Y (Pict. 1.1) consists of:

- 1)... Winch body with catch and voltage collectors on cable input
- 2)... Drum with a ratchet and voltage collector
- 3)... Cable provided with earthing pliers
- 4)... Bracket for mounting.
- 5)... Drum cover
- 6)... Shaft cover



Pict. 1.1

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2. Technical parameters

Marking: SREX 1.Y (where Y is a variable complementary mark for design marking)

Dimensions:..... 420x360x150 mm

Weight: 18 kg

Maximum cable length..... 10 m

Cable entry: through cable gland for cable diameter 6-10 mm
 possible to connect only intrinsically safe voltage Ex ib

Protection type:..... II 2G Ex ib IIC T6
 II 2G c T6

Protection: IP 20

Temperature range: -20 up to 60°C

3. Safety of work and general rules of health protection

Become familiar with this instrument and its control, operation, its elements and possible risks related to its improper use, which are in detail listed in these operating instructions.

Do not use the instrument for purpose different from what it is intended for.

Do not operate the instrument when you are under influence of alcohol or other drugs.

Any modifications causing wrong function and possible injury of operator are prohibited.

DO NOT USE the instrument in case it is damaged.

Provide for correct instrument maintenance.

Use only original spare parts specified by the manufacturer.

If the instrument was not use for some longer time period, check it before using it again whether there is any damage (body cracks, damaged cable, non-functional catch)

4. Installation and connection

4.1 Reel installation

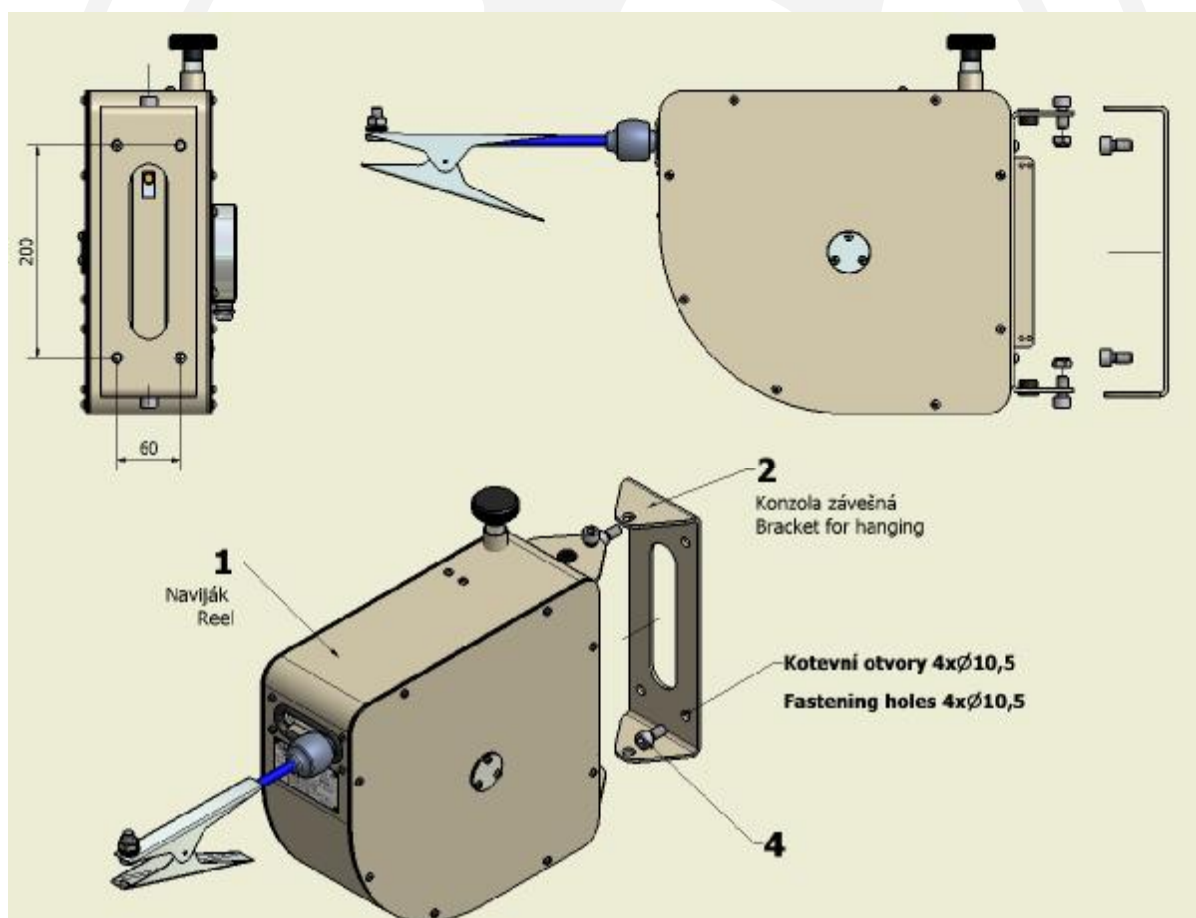
Reel installation can be done in several ways:

1. Installation of the reel itself – pict. 4.1-1

If the earthing block is already installed and the reel is installed later, then it is possible to install the reel (pos. 1) on the wall or frame in such a way to enable suitable connection with the earthing block.

First attach the bracket for hanging (pos. 2) by means of 2-4 pcs of suitable screws (pos. 4) through holes of 10,5 mm diam. on spacing of 60x200 mm. These screws are not a part of supply. The bracket for hanging can be also welded in the area of the oval hole.

Install a winch on such fixed bracket by means of 2 pcs of M12x20 screws and self-locking nuts M12 (pos.3). Tighten the screws only so as it is possible to freely turn the winch to a side.



Pict. 4.1-1

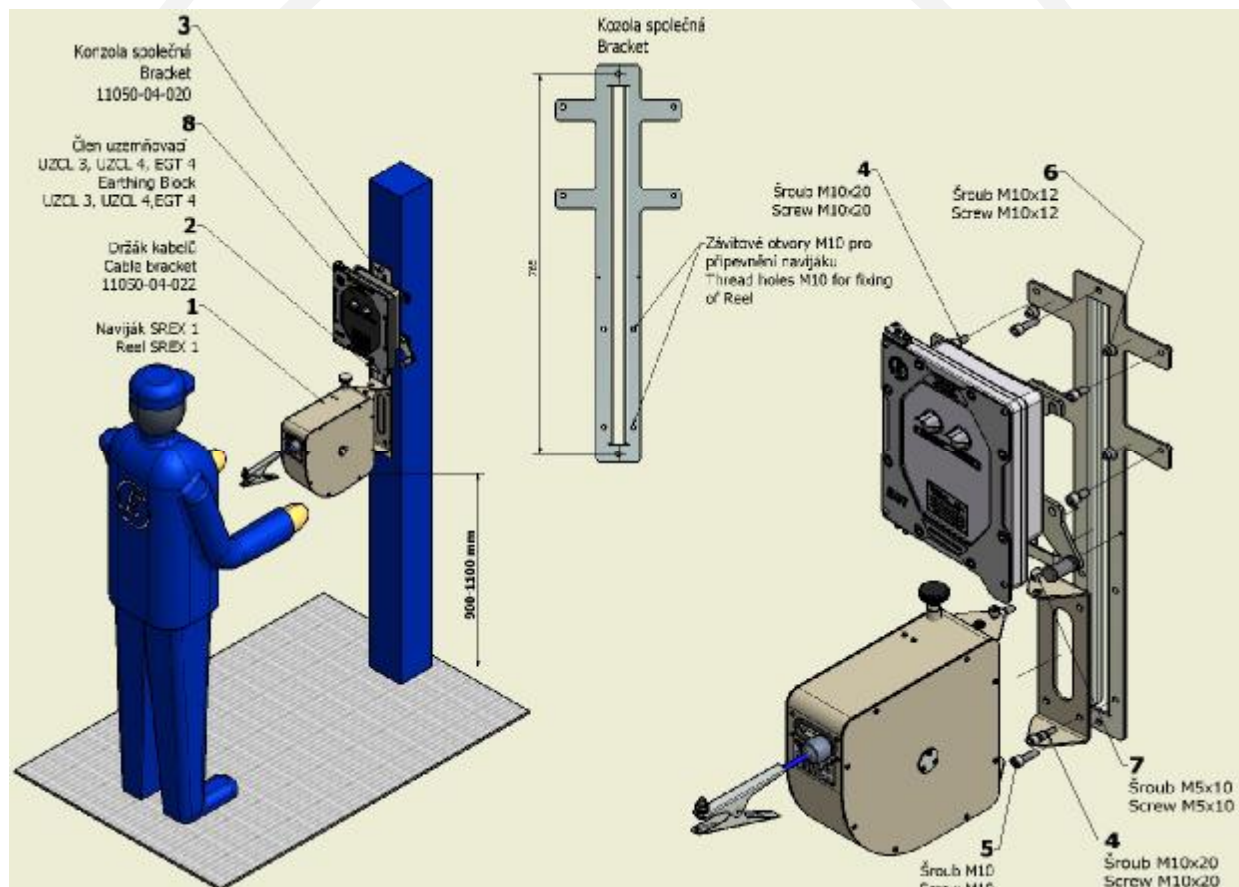
2. Installation of a reel with earthing block UZCL 3.d, UZCL 4.d and EGT 4 – pict. 4.1-2

First attach the bracket (pos. 3) to a place prepared in advance through two holes of 10,5 mm by means of 2 pcs of suitable screws (pos. 5). These screws are not a part of supply. The bracket for hanging can be also welded.

Attach bracket for hanging (pos. 2 in pict. 4.1-1) to the bracket by means of two screws M10x20 (pos. 4) and the winch to the bracket for hanging see point 1. Then fix the earthing block UZCL 3.d or 4.d (pos.8) above the winch to the bracket (pos. 3) by means of 4 pcs of screws M10x20 (pos. 4).

For installation of earthing block EGT 4 (pos. 8) it is necessary to fix a holder (pos. 9) to the earthing block by means of 4 pcs of screws M10x12 (pos. 6). Such prepared earthing block then fix to the bracket (pos. 3) by means of 4 pcs of screws M10x20 (pos. 4).

Holder (pos. 9) and 4 pcs of screws M10x12 (pos.6) are a part of supply of earthing block EGT 4.



Pict. 4.1-2

3. Installation of a reel with earthing block UZCL 5.d, UZCL 6.d and EGT 6 – pict. 4.1-3

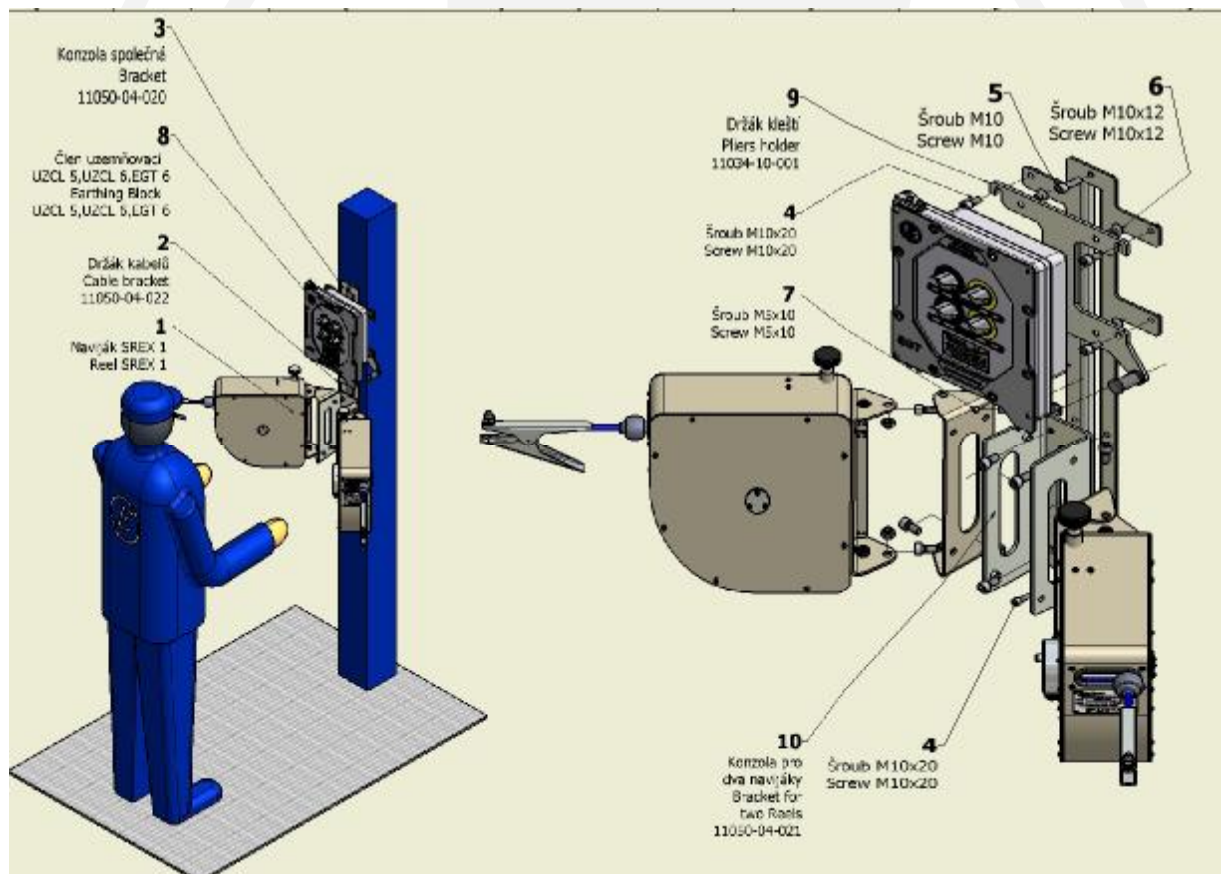
First attach the bracket (pos. 3) to a place prepared in advance through two holes of 10,5 mm by means of 2 pcs of suitable screws (pos. 5). These screws are not a part of supply. The bracket for hanging can be also welded.

Install the bracket for two winches (pos. 10) on the bracket (pos. 3) by means of 4 pcs of bolts M10x20 (pos. 4). The winches will be attached to such prepared bracket according to the procedure of point 1.

Then fix the earthing block UZCL 5.d or 6.d (pos.8) above the winch to the bracket (pos. 3) by means of 4 pcs of screws M10x20 (pos. 4).

For installation of earthing block EGT 6 (pos. 8) it is necessary to fix a holder (pos. 9) to the earthing block by means of 4 pcs of screws M10x12 (pos. 6). Such prepared earthing block then fix to the bracket (pos. 3) by means of 4 pcs of screws M10x20 (pos. 4).

Holder (pos. 9) and 4 pcs of screws M10x12 (pos.6) are a part of supply of earthing block EGT 6.



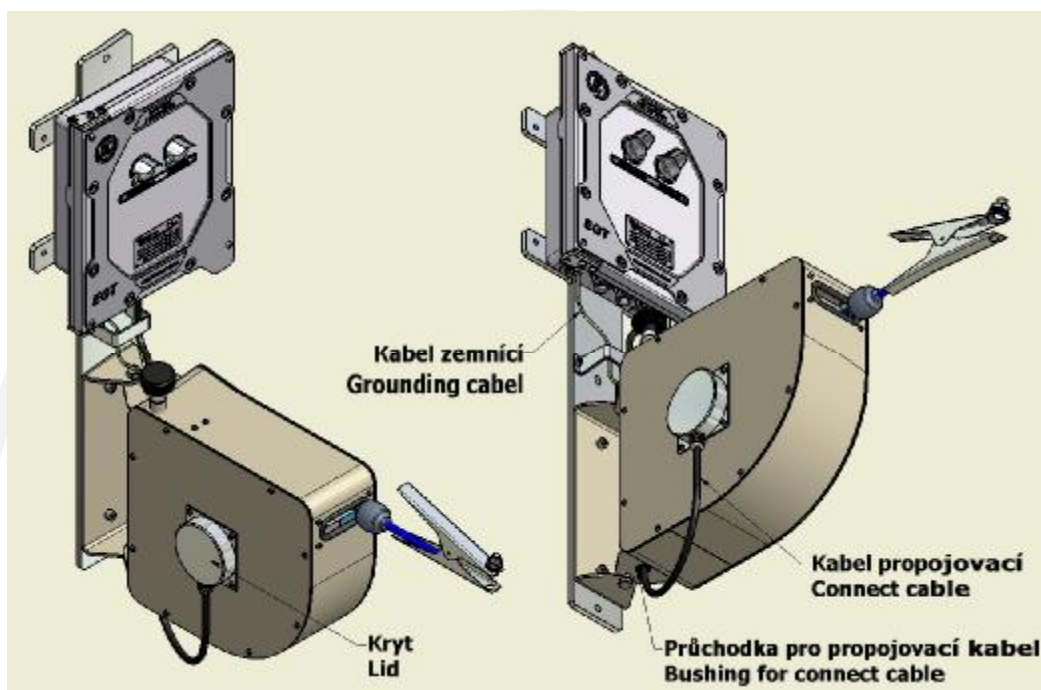
Pict. 4.1-3

4.2 Electrical connection

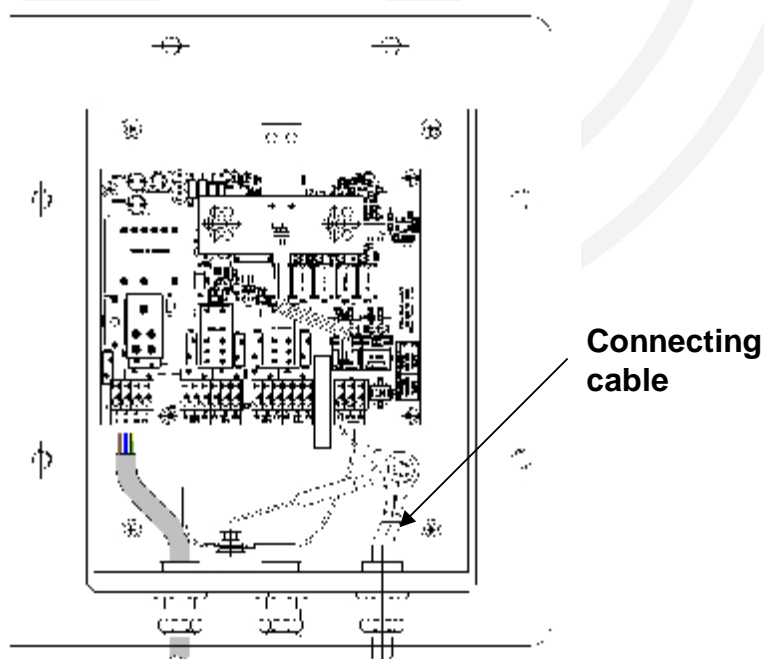
The reel is supplied with earthing as well as connecting cable as a standard. The earthing cable is already attached to the reel .

After reel installation (see Chapt. 4.1.) make the connection of earthing cable with earthing block as shown in the picture 4.2-1.

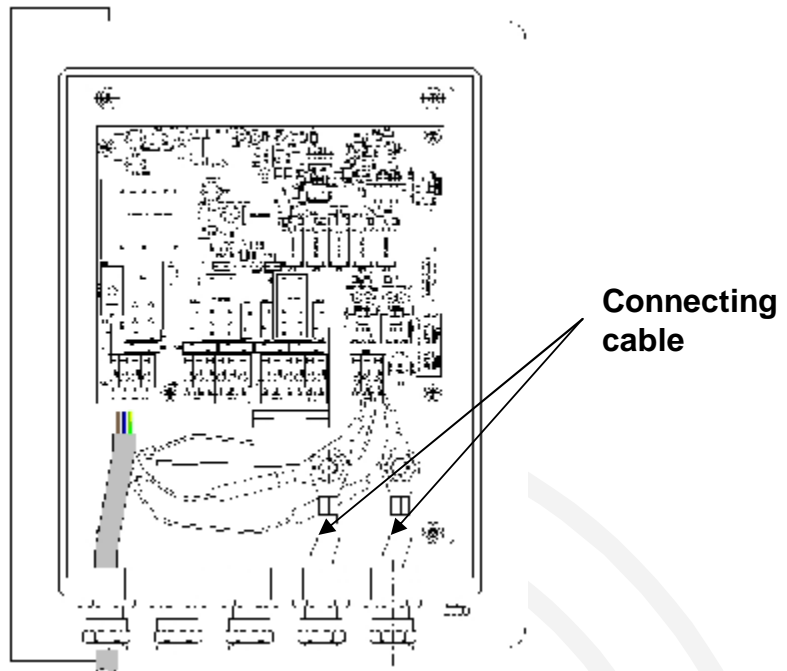
The connection cable is on one end provided with a cable eye and on the other end the conductors are terminated with sockets. First pull the cable with the free end from inside the earthing block through a cable gland and fasten the cable eye to a bolt in the earthing block. For earthing blocks UZCL 3.d, 4.d and EGT 4 according to the pict. 4.2-2, for earthing blocks UZCL 5.d, 6.d and EGT 6 according to the pict. 4.2-3 .



Obr.4.2-1



Pict. 4.2-2




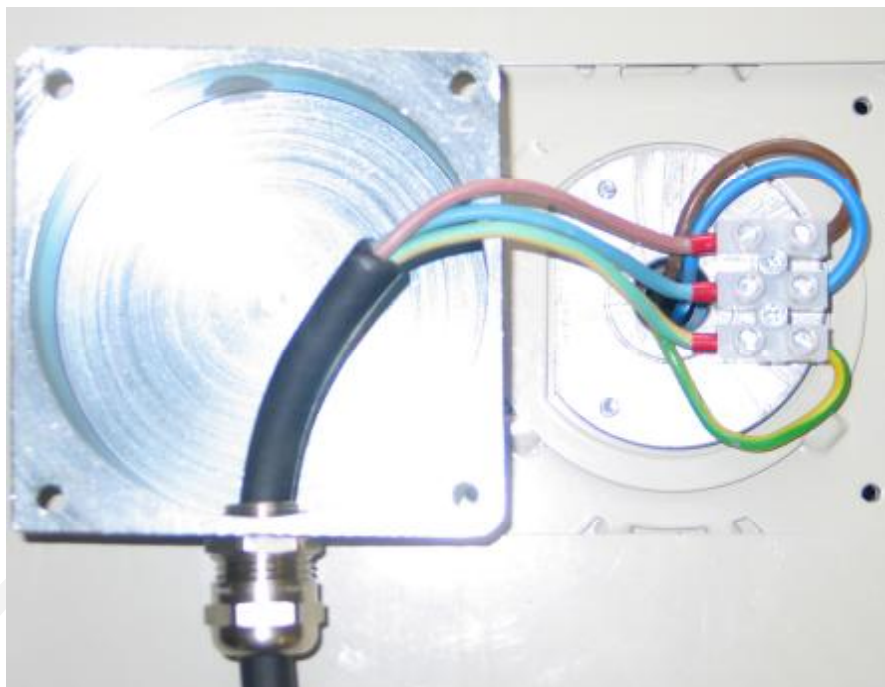
Pict. 4.2-3

Then pull the connecting cable through cable glands on reel bracket and through a cable gland on reel cover according to the pict. 4.2-1 and connect it as shown in pict. 4.2-4.

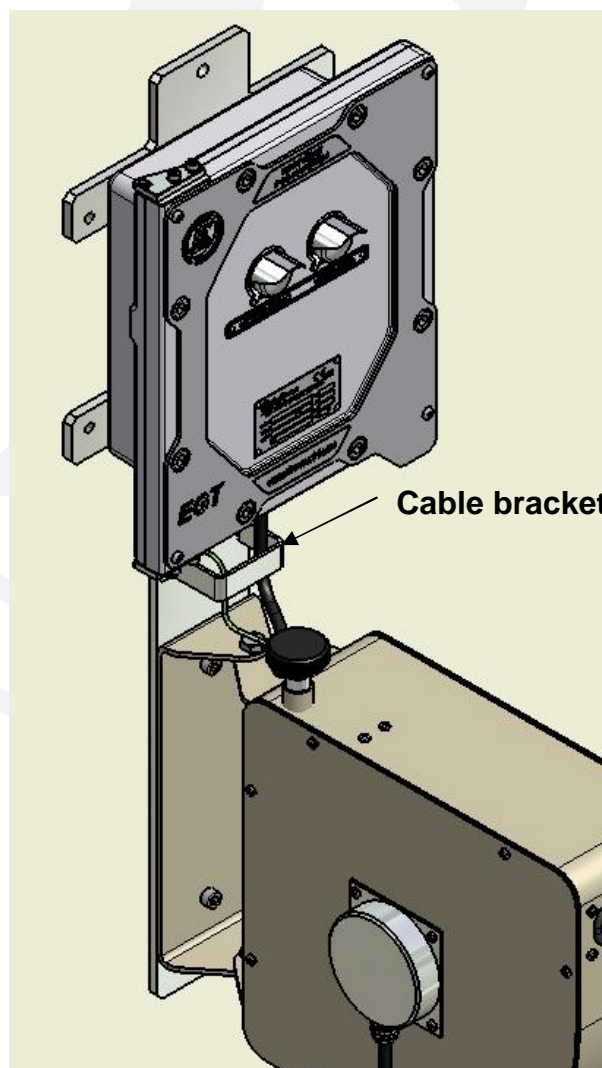
Attach the cables by a cable bracket (pos. 2 in pict. 4.1-2 and 4.1-3) according to the pict. 4.2-5. The bracket is fixed by two screws M5x10 (pos. 7 in pict. 4.1-2 to the bracket (pos. 3 in pict. 4.1-2)).

CREATE SUITABLE LOOPS ON THE CONNECTING CABLE AND EARTHING CABLE DURING THEIR CONNECTION SO AS THE CABLES ARE NOT DAMAGED OR PULLED UP WHEN THE REEL IS TURNING!!!

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Pict. 4.2-4



Pict. 4.2.-5

5. Instructions for use

After installation and subsequent electrical connection of the reel with the earthing block the instrument is ready for use.

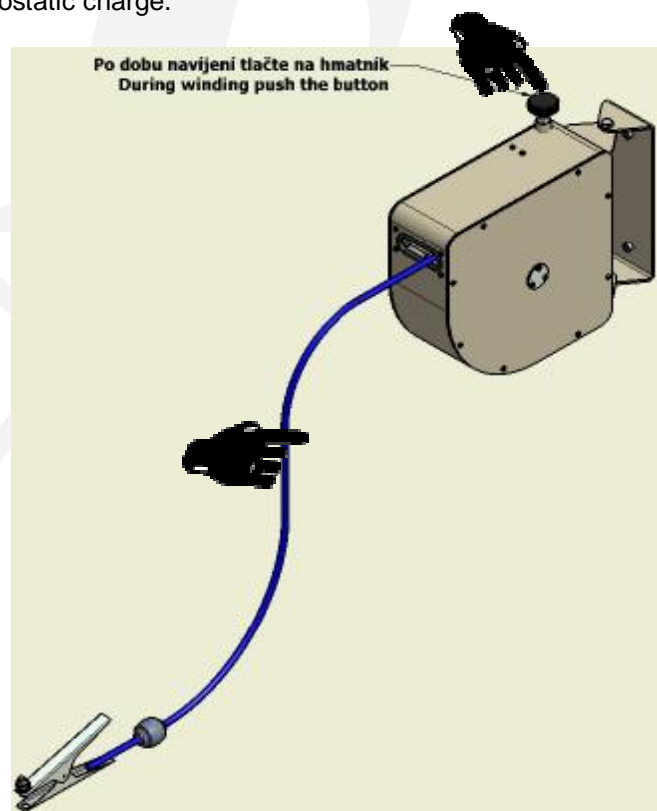
5.1 Unwinding of a cable with pliers


Take earthing pliers and start **SLOWLY TO PULL OUT THE CABLE** from the reel in the required direction. Avoid forced pulling out of the cable or jerky movements, which could result in skipping of the cable out of the drum and to its subsequent damage. You will hear clicking sound during unwinding of the cable, which is caused by the catch skipping on the ratchet teeth. Once you achieve the needed cable length, connect the pliers to an earthed object. The above mentioned system of ratchet catch prevents reverse winding of the cable.

5.2 Winding of cables with pliers

After finishing operation with the instrument take the pliers off the earthed object and approach the reel. You can put the pliers on the ground or attach them to the bracket. Push the black button (pict. 5.2) on the reel body by which means the catch will be released and the cable will start to wind on spontaneously. Due to the fact that within the first third of winding the winding speed is high we recommend holding the cable by hand and moving it from one side to another in the horizontal direction (Pict. 5.2). Pay attention that the hand holding the cable is at least 50 cm from the entry. In this way you will achieve more even winding of the cables and at the same time you can correct the winding speed. It is necessary to hold the button pushed during the whole time of winding. If you push the black button with more force, automatic braking of the rotating drum will occur, which is caused by friction between the ratchet and the catch.

During unwinding and winding the cable goes through an opening which is lined with a rubber cuff. There are two metal shafts behind this opening. The cable passes between these shafts and gets here rid of possible electrostatic charge.



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Pict. 5.2

6. Inspections, warranties, maintenance and service

In case of any damage of the instrument, cable or pliers it is forbidden to use it!

6.1 Inspections

It is necessary to inspect the instrument in operation in the following way:

6.1.1 Four weeks visual inspection

During weekly visual inspection observe the overall condition, functionality and completeness of the instrument.

Check the surface of the reel by visual inspection whether there is any mechanical damage.

In the area where the cable comes out of the reel check the rubber cuff whether there is any damage. If the cuff is damaged in such a way that the cable can contact metal body of the reel, then it is necessary to replace the cuff.

Check the connection area of the earthing pliers with reel cable whether this connection is not damaged.

Check attachment of the earthing conductor between the reel and the earthing block.

6.1.2 Yearly inspection of wear

During the wear inspection check condition and play of bearings, connecting material and wear of the ratchet and catch. It is also necessary to check whether there are any cracks on the structure parts and welds.

Check tightening of covers by screws which have to be provided with fan-shaped washers.

6.2 Warranties

Company Elok – Opava spol. s r.o. provides warranty to the instrument function for 24 months since the date of acceptance.

The warranty does not apply to damages caused by use different from what is described in these operating instructions or if the damages were caused by changes of the instrument done by other persons than persons authorized by company Elok – Opava spol. s r.o.


Instruments from company Elok – Opava s.r.o. can be repaired and serviced only by persons duly trained and authorized by company Elok – Opava spol. s r.o. and only original parts can be used. In case of using different parts than original the warranty becomes invalid.

6.3 Maintenance

If during maintenance or inspection any damage occurs, it is necessary to put the instrument immediately out of operation and let it repaired by the manufacturer.

The instrument must be put out of operation if:

- there is mechanical damage, which prevents correct function
- its parts are damaged by deep corrosion
- name plate of manufacturer is missing or if data on the name plate are illegible
- the cable, pliers, earthing conductor or connecting cable is damaged

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If the pliers are damaged, they can be replaced directly by the customer.

When replacing the pliers follow the following procedure:

- order spare pliers together with parts necessary for the replacement - order no.: 01032-02- 024
- snip the pliers off close the black sleeving which covers the connection of pliers with cable.
- put larger blow-in sleeving on the cable
- pull the cable through pliers opening so as its free end has 200 mm and the sleeving is behind the pliers
- insert smaller blow-in sleeving on the free end
- after previous stripping of the conductors (in the length of 20 mm) press cable eye on the free part of the cable and insert the smaller blow-in sleeve on the stripped conductors so as the sleeve covers the whole part of the stripped conductors up to the cable eye.
- by means of hot air gun attach the sleeve to the cable
- insert the cable eye on pliers screw and tighten it.
- finally insert the large blow-in sleeve on the pliers so as $\frac{3}{4}$ is on the pliers and $\frac{1}{4}$ on the cable - attach the sleeve by hot air gun (pict. 7.1).




Pict. 7.1

7. Service

Company Elok provides warranty as well as after-warranty service for the given instrument. In case of reel or cable damage contact the manufacturer or corresponding sales representative.

Name and address of the manufacturer: Elok-Opava spol. s r.o.,
 Sádek 17,
 747 75 Velké Heraltice
 Czech Republic
 tel.: 553 663 930
 fax : 553 663 949
www.elok.cz

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