



## MECHANICAL DEVICES ENGAGED CLUTCH MANAGEMENT (DIN 709) AND CORRESPONDING COMPATIBLE CABLES MODEL DFI VERSIONS DFI-C / DFI-M

DFI is a system actuated by two combined levers, it acts on the machine clutch and is mainly used to control the advancement of the machine itself. DFI is applied on machines with engaged clutch in resting state and it allows the opening of the clutch itself, in full compliance with the DIN 709 rule.

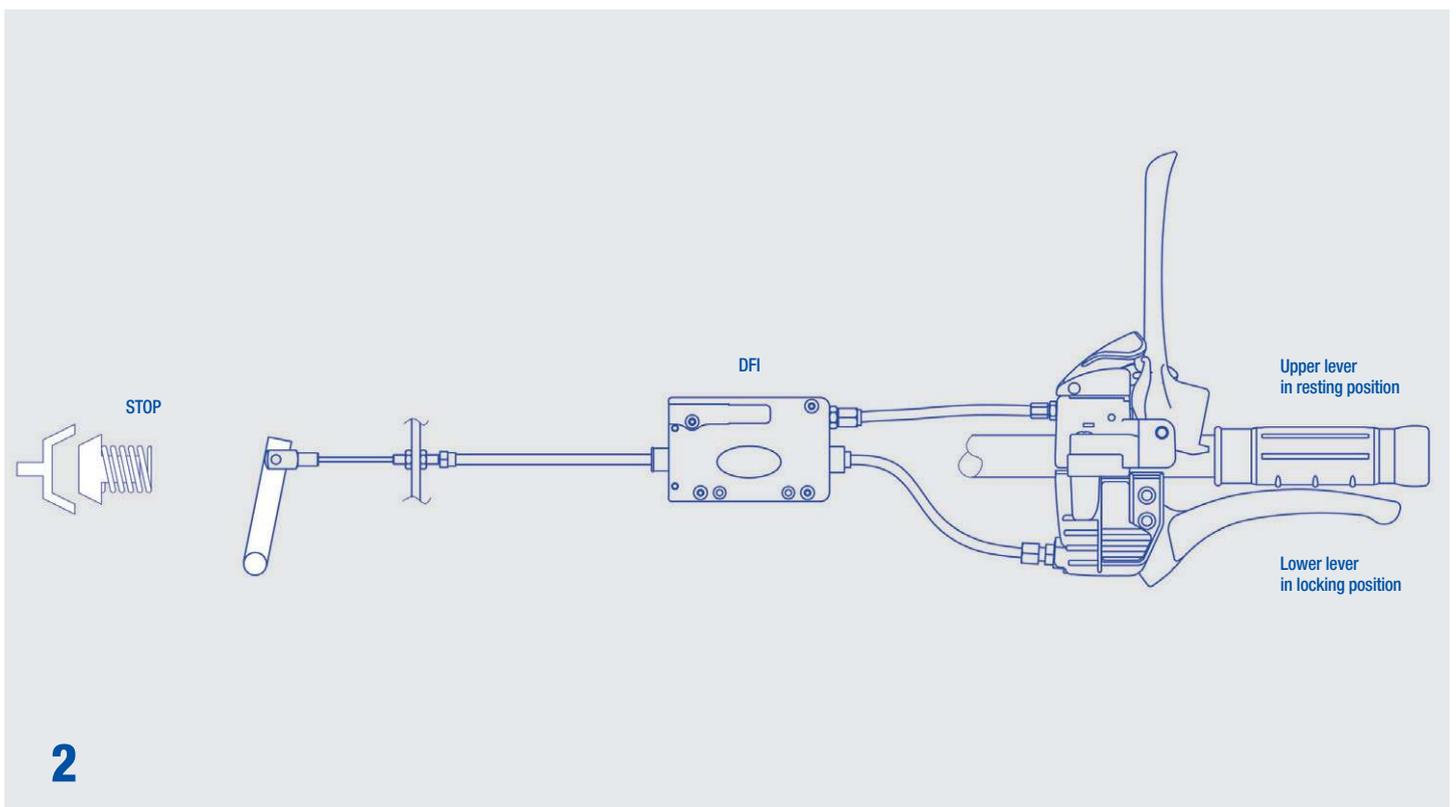
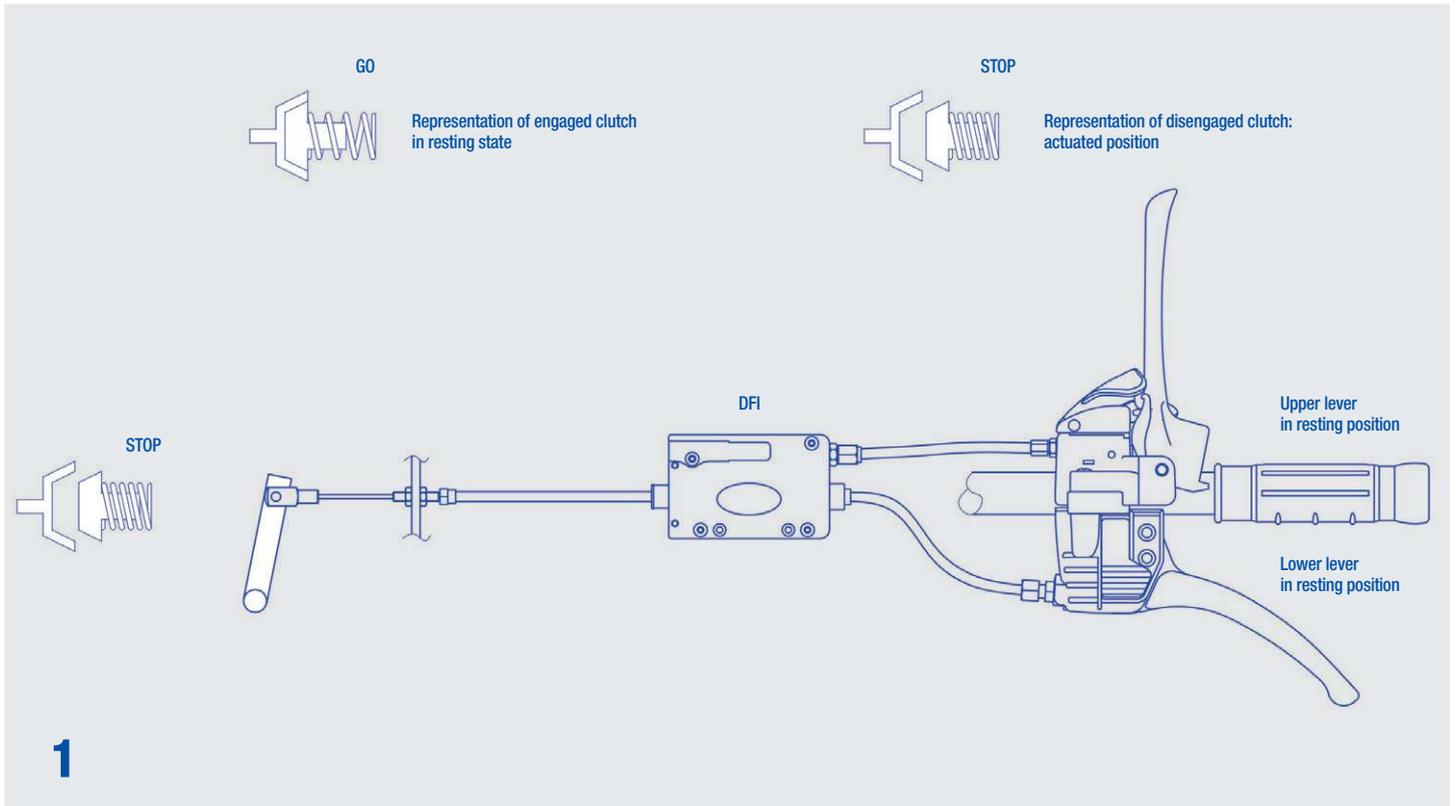
The adoption of the two levers has the aim to enhance the using practicability and the acting sensitivity.

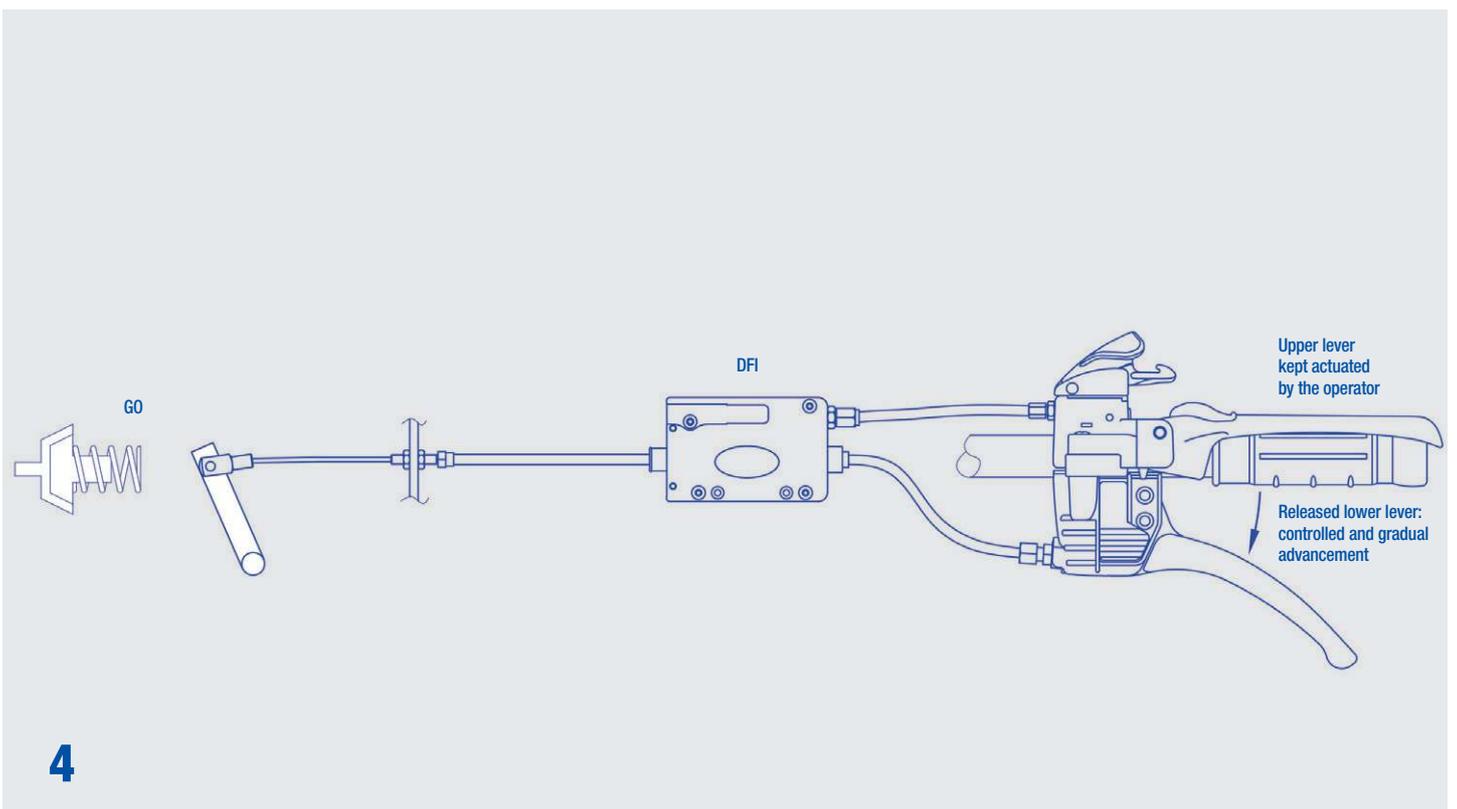
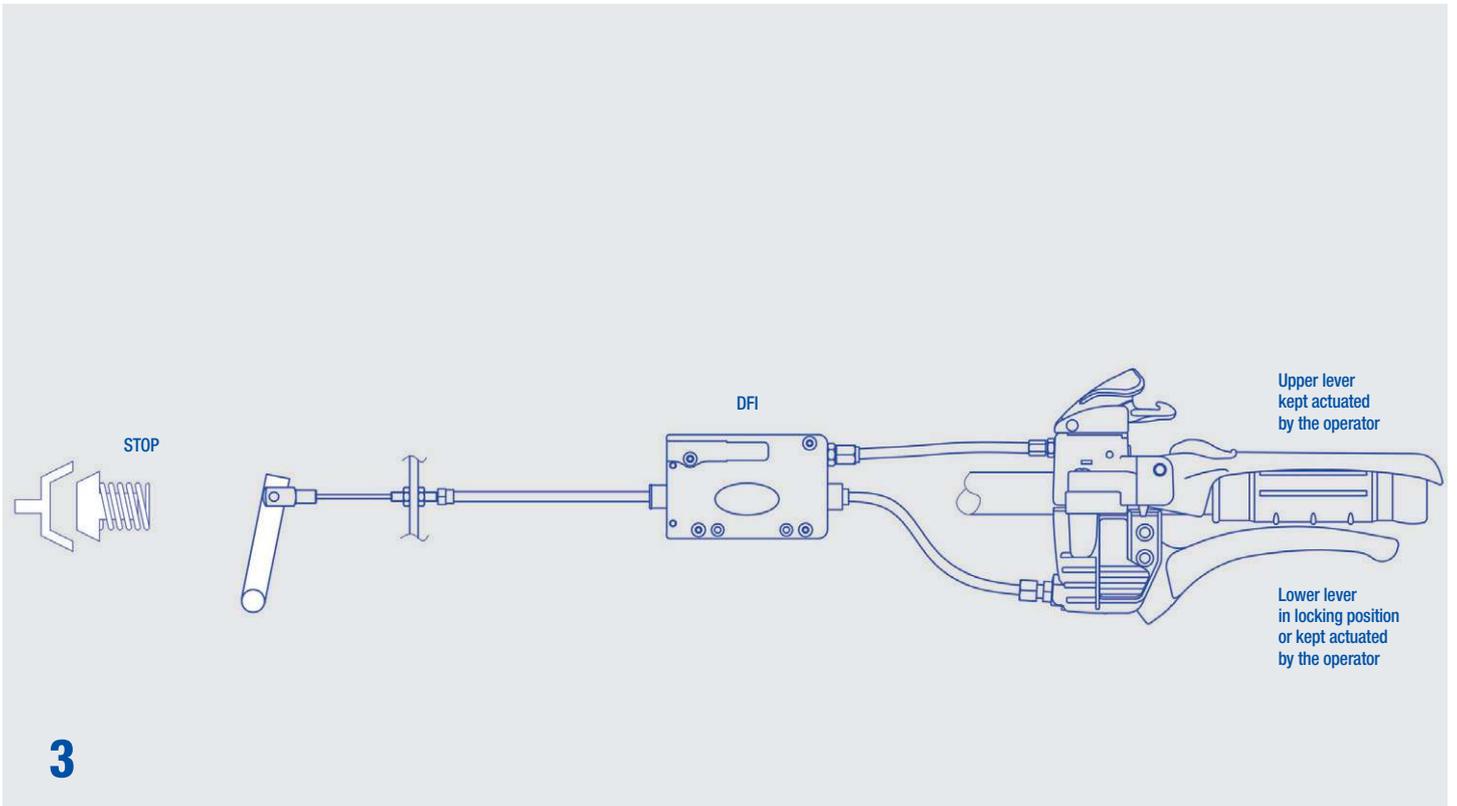
As a function of the positioning, DFI is realized in the version C, if assembled near the Gearbox and in axis with the clutch little lever (DFI-C), or in the M version, if assembled on the Handlebar (DFI-M).

In the first case, the connection DFI-C/clutch is realized through a steel rigid rod;  
in the second case, the connection DFI-M/clutch is realized through cable with sheath.



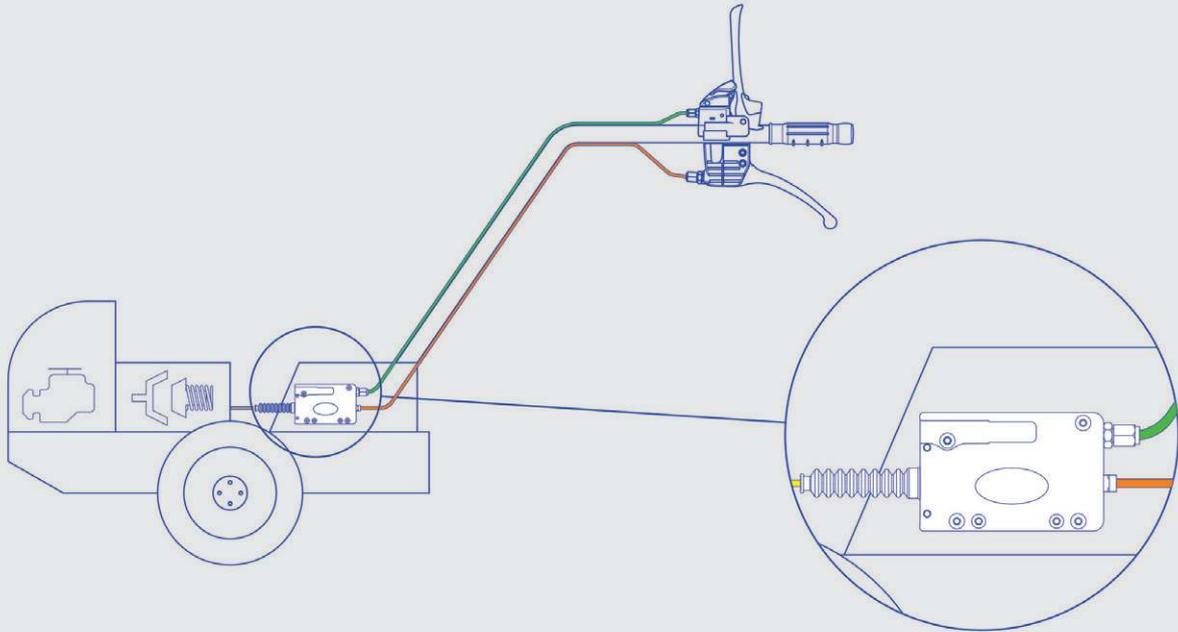
# MECHANICAL DEVICES OPERATING DIAGRAM MODEL DFI VERSIONS DFI-C / DFI-M



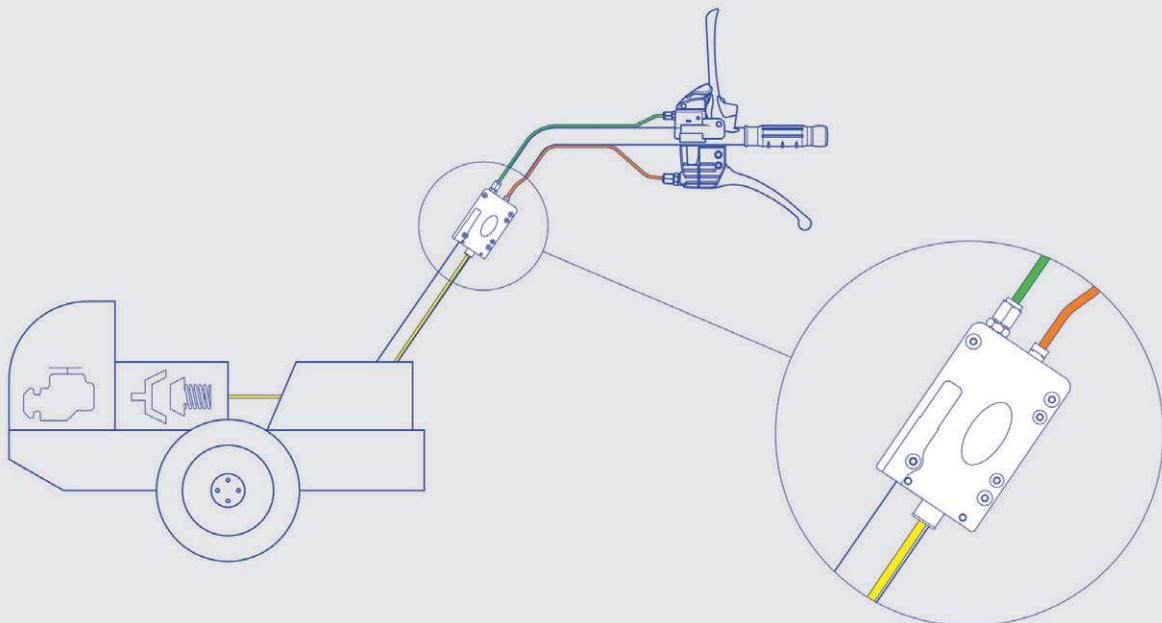


## MECHANICAL DEVICES ASSEMBLY OPPORTUNITIES MODEL DFI VERSIONS DFI-C / DFI-M

**DFI-C**, wall-mounted device assembled near the Gearbox, in axis with the clutch little lever.  
Connection through steel rigid rod.



**DFI-M**, device assembled on the Handlebar. Connection through cable with sheath.





## MECHANICAL DEVICES DFI (Device for Engaged Clutch) AND ORDER FORM MODEL DFI VERSIONS DFI-C / DFI-M

### Characteristics:

#### DFI-C:

Rod linear stroke: 13 mm

Assembly: on walls with M5 fastening screws

Inner springs force in kg: 24 - 35 - 42

(The springs inside the device serve to disengage the clutch and keep it open.

For this reason their force must be higher than the clutch load)

Material: nylon, metal Nylon colour: black

#### DFI-M:

Linear stroke: 13 mm

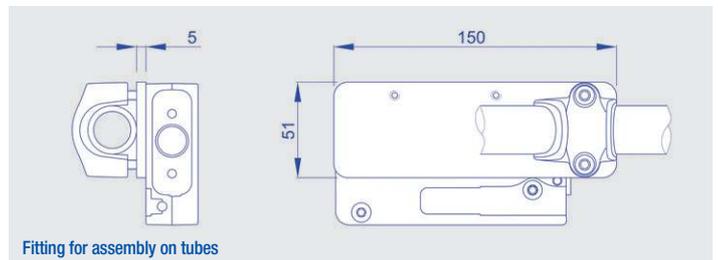
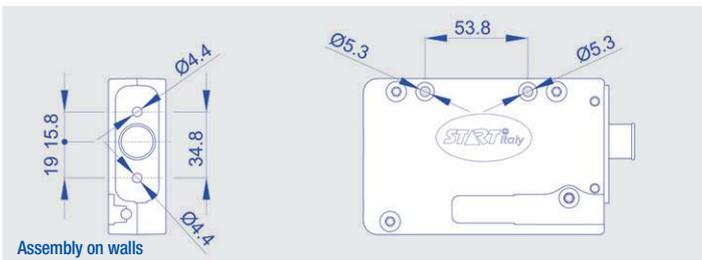
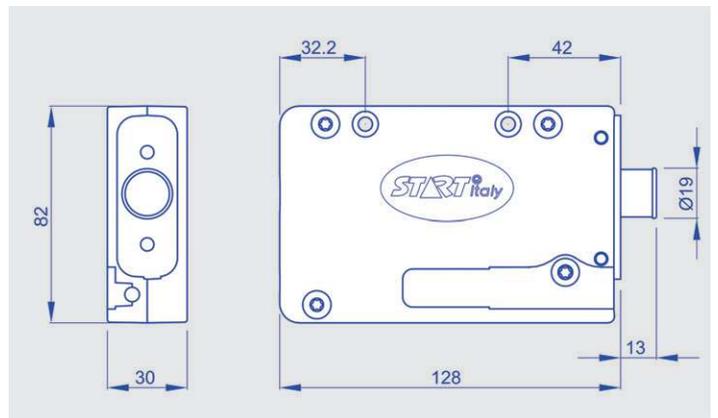
Assembly: mainly on tubes through a holder fitted with collar or on walls with M5 fastening screws

Inner springs force in kg: 24 - 35 - 42

(The springs inside the device serve to disengage the clutch and keep it open.

For this reason their force must be higher than the clutch load)

Material: nylon, metal Nylon colour: black



To order: compose, please, your product code inserting the boldfaced code corresponding to the chosen option in the proper square.

DFI

DFI-C (assembly near the gearbox): **C**  
DFI-M (assembly on the handlebar): **M**

Inner springs force kg. 24: **24**  
Inner springs force kg. 35: **35**  
Inner springs force kg. 42: **42**

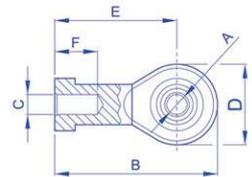
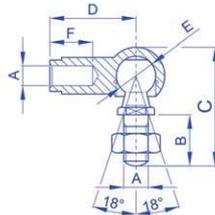
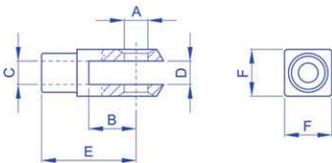
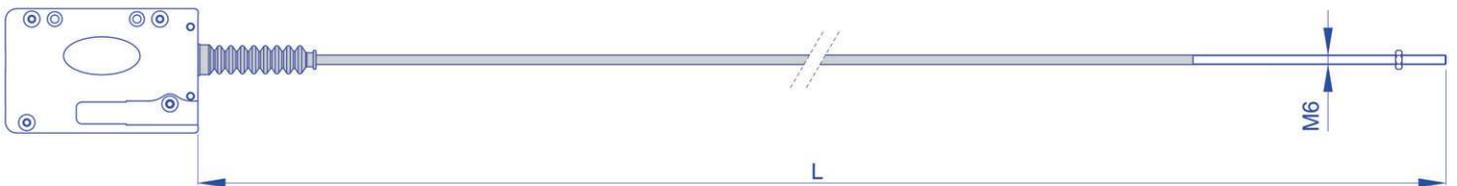
Assembly on walls: **1**  
Assembly with fitting, on tube outer Ø mm 22: **2**  
Assembly with fitting, on tube outer Ø mm 25: **3**  
Assembly with fitting, on tube outer Ø mm 26: **4**  
Assembly with fitting, on tube outer Ø mm 27: **5**  
Assembly with fitting, on tube outer Ø mm 28: **6**



## MECHANICAL DEVICES COMPATIBLE RODS MODEL DFI VERSION DFI-C

**Characteristics:**

Rod thread: M6  
Rod length: upon request  
Rod terminals: see table



Ref.	A	B	C	D	E	F
<b>Fork</b>						
F1	6	12	M6	6	24	12
F2	6	24	M6	6	36	12
F3	8	32	M6	8	48	16

Ref.	A	B	C	D	E	F
<b>Angular joint</b>						
S1	M6	12.5	31	25	10	11.5

Ref.	A	B	C	D	E	F
<b>Joint head</b>						
T1	6	40	M6	20	30	12



## MECHANICAL DEVICES ORDER FORM FOR COMPATIBLE RODS MODEL DFI VERSION DFI-C

**To order:**

The technical options that are represented on the opposite page are the standard personalizations which are provided from the company.

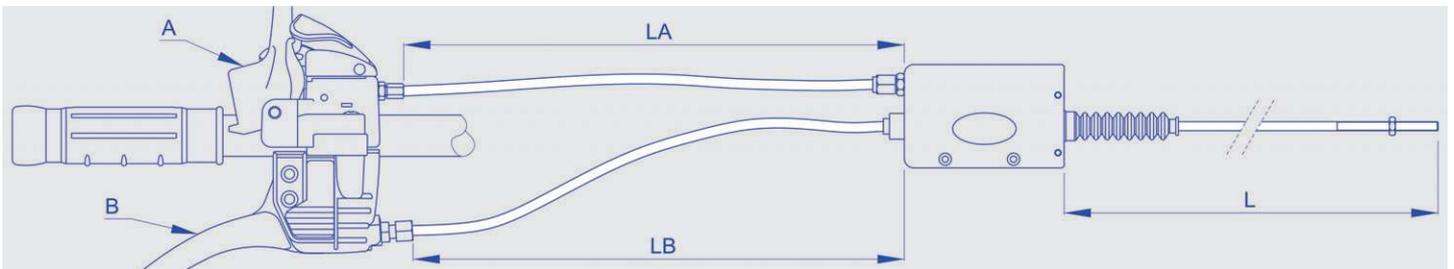
Among these possibilities, you can choose the rod construction that meets your requirements.

At first choose the rod length and select the corresponding terminals among the possible options.

Find out your preferences and fill in the boxes with the number or the letters/number corresponding to your options.

Example: if you choose a fork as accessory, indicate the code 02 or 03 or 04 according to your needs.

And so on for other variables.



**To order: compose, please, your product code inserting the boldfaced code corresponding to the chosen option in the proper square.**

Cable					
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M6 threaded rod length (L) in mm: \_\_\_\_\_

Threaded rod: **1**

Fork F1: **2**

Fork F2: **3**

Fork F3: **4**

Angular joint S1: **5**

Joint head T1: **6**

Lever A sheath length (LA) in mm: **LA** \_\_\_\_\_

Lever B sheath length (LB) in mm: **LB** \_\_\_\_\_



## MECHANICAL DEVICES COMPATIBLE CABLES MODEL DFI VERSION DFI-M

### Characteristics:

Sheath diameter: Ø7 mm with inner antifriction tube

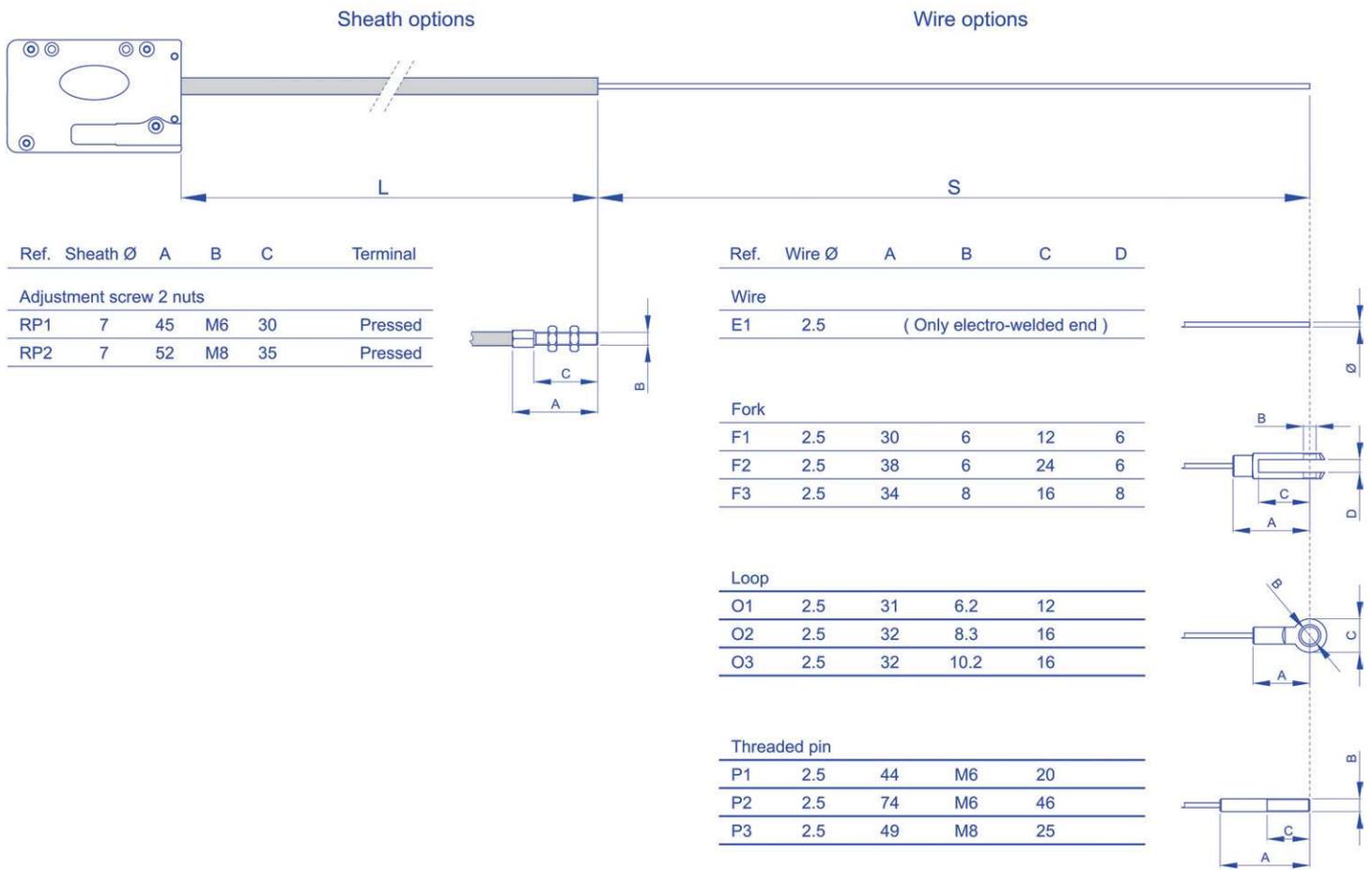
Sheath length: upon request

Wire diameter: Ø2,5 mm

Wire protrusion length: upon request

Sheath terminals: see table

Wire terminals: see table





## MECHANICAL DEVICES ORDER FORM FOR COMPATIBLE CABLES MODEL DFI VERSION DFI-M

**To order:**

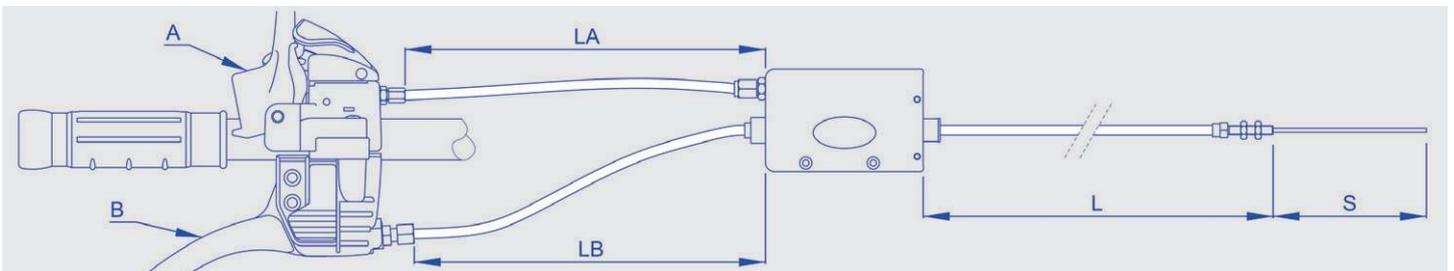
The technical options that are represented on the opposite page are the standard personalizations which are provided from the company.

Among these possibilities, you can choose the cable construction that meets your requirements.

Find out your preferences and fill in the boxes with the number or the letters/number corresponding to your options.

Example: if you choose a M6 pressed adjustment screw as terminal, indicate the code 01.

And so on for other variables.



**To order: compose, please, your product code inserting the boldfaced code corresponding to the chosen option in the proper square.**

<b>Cable</b>							
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Sheath length (L) in mm: _____						
Wire protrusion length (S) in mm: _____						
Pressed adjustment screw 2 nuts RP1: <b>01</b>						
Pressed adjustment screw 2 nuts RP2: <b>02</b>						
Only electro-welded wire Ø2,5 mm without terminal E1: <b>03</b>						
Fork F1: <b>04</b>						
Fork F2: <b>05</b>						
Fork F3: <b>06</b>						
Loop O1: <b>07</b>						
Loop O2: <b>08</b>						
Loop O3: <b>09</b>						
Threaded pin P1: <b>10</b>						
Threaded pin P2: <b>11</b>						
Threaded pin P3: <b>12</b>						
Lever A sheath length (LA) in mm: _____						
Lever B sheath length (LB) in mm: _____						



## MECHANICAL DEVICES COMBINED CONTROLS (upper lever) TO OPERATE DFI-C / DFI-M MODEL DS 33B

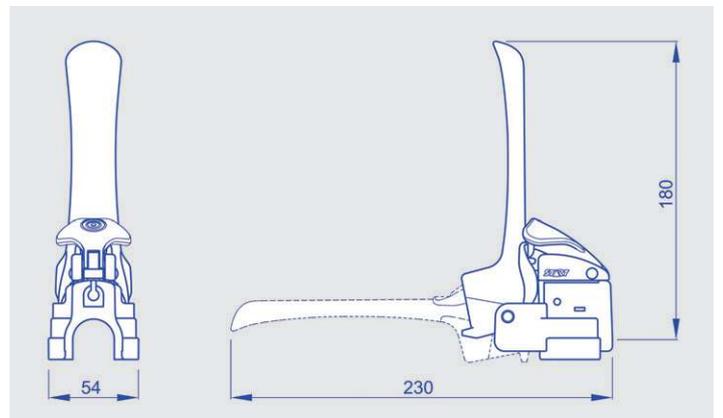
### Characteristics:

Acting: with initial safety block (release + movement, it prevents accidental operations, to comply with DIN 709 rule)

Assembly: on tubes Fastening type: screws for coupling with lower lever

Tube outer diameter: 22 mm - 25 mm - 26 mm - 27 mm - 28 mm Lever typology: round

Material: nylon Lever colour: red - yellow - black Holder colour: black



To order: compose, please, your product code inserting the boldfaced code corresponding to the chosen option in the proper square.

	<b>DS 33B</b>		
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Outer tube Ø mm 22: **1**

Outer tube Ø mm 25: **2**

Outer tube Ø mm 26: **3**

Outer tube Ø mm 27: **4**

Outer tube Ø mm 28: **5**

Red lever: **R**

Yellow lever: **G**

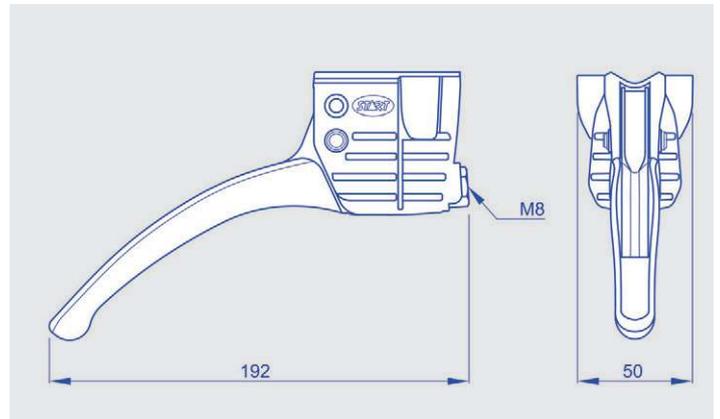
Black lever: **N**



## MECHANICAL DEVICES COMBINED CONTROLS (lower lever) TO OPERATE DFI-C /DFI-M MODEL LA 100

### Characteristics:

- Linear stroke in locking position: 15 mm
- Locking: to be inserted manually or to be inserted automatically (only for metal lever)
  - Standard locking button: left - right - double (only to be inserted manually)
  - Reinforced locking button: right (only to be inserted manually and only for metal lever)
- Assembly: on tubes Fastening type: screws for coupling with lower lever
- Lever return: without spring or with spring in stainless steel (only for metal lever)
- Lever material: nylon or metal Nylon colour: black Metal treatment: zinc plated or chromium plated



To order: compose, please, your product code inserting the boldfaced code corresponding to the chosen option in the proper square.

LA 100

- Stroke mm 15 with manual left locking button: **MS**
- Stroke mm 15 with manual right locking button: **MD**
- Stroke mm 15 with manual double locking button (only for metal lever): **MX**
- Stroke mm 15 with automatic left locking button (only for metal lever): **AS**
- Stroke mm 15 with automatic right locking button (only for metal lever): **AD**
- Stroke mm 15 with reinforced manual right locking button: **DR**

- Nylon lever without return spring: **NS**
- Zinc plated metal lever without return spring: **ZS**
- Zinc plated metal lever with return spring: **ZC**
- Chromium plated metal lever without return spring: **CS**
- Chromium plated metal lever with return spring: **CC**

