

OPERATING INSTRUCTIONS

Electronic digital position indicator

DD51-E (GN 9054)* DD51-E-RF

*(Product series valid only for Germany)



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1. Safety Instructions

The product has been designed and manufactured in accordance with the current regulations. The product leaves the factory ready for use and complies with the safety standards. To maintain the product in this state, it is necessary that it is assembled and used properly, in the closest compliance with this instructions manual and with the following specific safety precautions.

Before installing and using the DD51-E, read carefully this manual, which is intended as an indispensable supplement to the existing documentation (catalogues, data sheets). Morever, all the rules of law must be observed, in regard to accident prevention and environmental protection.



The use, without complying with the descriptions / specific parameters, (in combination with systems / machines / processes to be controlled), can lead to a

malfunction of the product, causing:

- health hazards,
- environmental hazards,
- damage to the product and to its proper functionality.

The device must not be used:

- in explosion hazard areas;
- in medical / life support areas and equipment.

Do not open the equipment and do not make any modifications! Modification of the equipment could adversely affect the reliability of the device and could lead to hazards! Do not attempt any repairs. Always return any defective equipment to the manufacturer! Any breach of the integrity of the device as delivered will invalidate the warranty.

Setup/Commissioning

In the event of abnormal behaviour (including change of operating conditions), the device must be shut down





immediately. Installation and commissioning must only be carried out by adequately trained and authorised personnel. After correct assembly and commissioning, the device is ready for operation.

Maintenance/repair

Switch off the power supply to the equipment before carrying out any operation. Maintenance must be performed only by trained and authorised persons.

Do not open or modify the indicator case. Tampering with this product can compromise the correctness and accuracy of its function.

In the event of a malfunction, do not attempt to repair the unit and contact the Elesa sales office.

1.1 Product release information

Although almost all features are the same as in previous releases, this manual specifically refers to devices updated to firmware revision 6.0 or later.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operating in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy: if not installed and used in accordance with the instructions manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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2. Description

The DD51-E position indicators, with battery power supply, can be used, mounted on pass-through shafts, to provide the reading of the absolute or relative positioning of a machine component.

Caratteristiche Meccaniche - Elettriche		
Power supply	Lithium battery CR2450 3.0 V	
Battery life	Up to 5 years (3 years for RF version)	
Display	5-digit LCD of 8 mm height and special characters	
Reading scale	-19999; 99999	
Number of decimal digits	programmable	
Unit of measure	mm, inches, degrees	
Utile Utileasule	programmable	
Rotation max. speed	300/600/1000 r.p.m. (2)	
Rolation max. speeu	programmable	
Precision	10.000 impulses/revolution	
Protection level	IP65 or IP67	
Working temperature	0 °C ÷ +50 °C	
Storage temperature	-20 °C ÷ +60 °C	
Relative humidity	max. 95% a 25 °C without condensation	
Environment	indoor use	
Interference protection	Complies with Directive 2014/53/EU (RED).	
Conditions of use	For use in closed and	
Conditions of Use	sheltered places only	
Altitude	up to 2000 m	
(2) Default: 600 r.p.m.		

A rotation speed higher than 600 rpm can only be maintained for short periods of time.

The maximum speed value affects the battery life.

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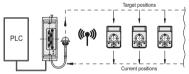
2.1 Version - DD51-E-RF

The DD51-E-RF is compatible with Elesa wireless network which allows meters and electronic indicators to communicate via radio with a PLC.

Elesa wireless network is made by the following components:

- One control unit UC-RF
- Max 36 device as DD51-E-RF, DD52R-E-RF or MPI-R10-RF

The UC-RF exchanges information with the DD51-E-RF via radio frequency and makes it possible to set the target position and check the current position of each indicator. Through an interface, available for the most common industrial buses (ProfiNet, Ethernet/IP, Modbus/TCP, and others), the UC-RF control unit allows the exchange of this information with a PLC and/or a generic controller of the machine.



3. Installation

1.Drill a Ø 6x10 mm hole in the machine body with a 22 mm centre distance from the shaft for mounting the rear reference pin.

 Mount the indicator on the shaft and make sure the reference pin fits into the hole.

3. Lock the bushing on the shaft by tightening the grub screw with a 2.5 mm hexagon

socket (as per UNI 5929-85).



4. Display



- 1. Relative mode indicator
- 2. Low battery level indicator
- 3. Connection indicator (only for DD51-E-RF)
- 4. Unit of measure: mm, inch
- 5. Unit of measure: degrees
- 6. Target position indications

5. Key functions





Key Or Key	Operating	Programming
Combination	Mode	Mode
0	Keeping the key pressed down for 3s activate programming mode. When in target mode, it reacts to a short press according to the setting of item0 of the main menu (chap. 8.3): d_tArG: When a target is loaded, the display shows the current absolute position. By pressing the key, the position of the destination to be reached appears on the display. d_toG0[DEFAULT]: when a target is loaded, the display flashes the distance from the current position to be reached. By pressing the key, the current absolute position will appear on the display. OFF: the function is disabled.	Select the item menu or confirm selection or insertion of the parameter value

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Select the measure mode: ABS : absolute measure mode REL : relative measure mode It is possible to choose one of the following op- tions (see item O of the menu - chap.8.3): ArCL r (DEFAULT]: when changing from ABS to REL the counter is reset. Ar : when changing from ABS to REL the counter is reset. OFF : the function is disabled.	Digit increase selected / exit
Unit of measure selection. The available options are: millimetres, inches and degrees. It is possible to choose one of the following op- tions (see item0 of the menu - chap.8.3): <i>ALL</i> [DEFAULT]: se- lectable units of measure: mm, inch, degrees <i>no dEC</i> : selectable units of measure: mm, inch <i>OFF</i> : the function is disabled	Scroll down the list of possible selections or menu items / select the next digit

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0+	Programmable for one of the following functions (see menu item 00 – chap.8.3): P_0r.6 [DEFAULT]: shows and allows you to set the 0riGin parameter. P_St.P: shows and allows you to set the St.EP parameters. P_0F.S: shows and allows you to set the 0FFS parameters.	N/A
	In relative measure mode, resets the measure. In absolute measure mode it is programable for one of the following functions (see menu item _0 _ 0 - chap 8.3): $L_{-}0FS$ [DEFAULT]: select one of the offsets and set the measure using it together with the Origin parameter (see chap.7.5). OFF : the combination is disabled.	N/A

6. Switching on/off the device

6.1 Switching on the device

After reading and understanding the "Safety Instructions" section, proceed by switching on the indicator.

To switch on the indicator, hold down while pressing the key O.

The display will switch on and the indicator will be ready for use.

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6.2 Switching off the device (for storage only)

To switch the system off:

- select the rESEt item from the main menu (see chap.8.3)
- using the key 🕅 , scroll through the items to select OFF.

- press the key to confirm. The display will switch off and the indicator will go into sleep mode.

7. Operational mode

7.1 Reference points, origin and offset

When the device is turned on or reset, the position of the shaft at that moment is set as the origin of the measure.

The value attributed to this position is given by the parameters, Origin and Offset, which can be set by the user. Origin is an arbitrary number that can be set in the range -19999 \div 99999 depending on the resolution set and is to be considered as the machine's limit switch value in its default conditions. The offset is added to Origin which is always an arbitrary value that can be set in the range -19999 \div 99999 depending on the resolution and which allows you to move the actual origin of the measure based on any changes in the machine configuration.

For example, a certain set point can operate different tools with relative displacements of the point of origin. For example, in the case of a tube cutting machine the device indicates the position of the stop that determines the length of the tube. The limit switch point is fixed but it does not necessarily correspond to a zero length of the tube and therefore Origin will be different from zero but always the same.

However, the machine makes it possible to mount different blades depending on the type of tube and these can have different positions and/or thicknesses. Therefore the actual length will have to be corrected with a determined value which will be memorised as an offset.



For greater flexibility of use, the DD51-E permits storage of up to 10 different offset values.

To program the offset values see the OFFS parameter in chap. 8.2 However, during installation and for other specific applications, it is useful to be able to reset the internal reference value in another position. For this purpose, see chap. 8.5.1.

WARNING: The value of the Origin parameters and the offsets are the same for the mm and inch units of measure and are displayed, depending on the unit of measure in use (see chap. 7.4), with the appropriate conversion coefficient.In the case of degrees, these parameters are totally different and independent from the previous ones.

7 2 Resolution

The device manages different measure display resolution values for each of the three units of measure managed (mm, inch and degrees). The same display resolution set is used to set different parameters such as Origin, offsets

and targets.

WARNING: If the resolution of one of the units of measure is changed, to avoid setting errors, all the parameters that are affected are reset: Origin, offset, etc.: It is therefore advisable to decide and set the display resolution of all units of measure as a first step in installing the device. To make the most of the device's measure capacity, the resolution is automatically reduced if the measure to be displayed exceeds the capacity of the display. The measure on the display will flash.

In this case, the resolution variation is temporary (it is restored if the display is able to display the measurement with the set resolution) and has no effect on the set parameters.

7.3 Absolute or relative measure selection

Press the key it is select the absolute or relative measure mode. The relative measure mode is indicated on the display by the REL symbol. In the case of



absolute measure mode,



It is possible to change the function of the key by choosing one of the options available in the menu item __0 __

The available options are:

- ALL (default): when changing from ABS to REL the counter is reset.
- nodEG: when changing from ABS to REL the counter is not reset.
- OFF: the key is disabled and it is not permitted to change the measure mode.

7.4 Unit of measure selection

Press the key to select the required unit of measure.

The available options are millimetres, inches and degrees.

The selected measure mode is indicated on the display by the symbols:

- mm: millimeters - INCH: inches - D: degrees

00
$\square \bigcirc \bigcirc$

It is possible to change the function of the key by choosing one of the options available in the menu item. 0____

The available options are:

- ALL (default): selectable units of measure: mm, inches and degrees.
- nodEG: selectable units of measure: mm, inch
- **OFF**: the key is disabled and it is not permitted to change the selected measure mode.

7.5 Reference point setting

By pressing the key combination + it is possible to reset the measure references of the device by loading



the origin value and an offset value (see chap. 7.1).

By pressing the key combination O+ ID the screen will show the last offset value used (e.g. OFS D). It is possible to select the desired offset value by pressing the and then confirm by pressing the key



It is possible to change the function of the key combination by choosing one of the options available in the menu item $__0_0$

The available options are:

- P OFS: the key combination allows you to select an offset and set the origin value.
- *OFF*: the key combination + 10 is disabled.

WARNING: This function is available only in absolute measure mode.

7.6 Direct programming of Origin, Offset and Step parameters

The key combination $O + \mathbb{D}_{allows direct access to}$ the programming of one of the following parameter: Origin, Offset or Step.



______ It is possible to change the function of the key combination by choosing one of the options available in the menu item 0 0.

The available options are:

- P OrG: direct programming of the absolute reference value (Origin parameter)
- P_StP: direct programming of the reading after one revolution (Step parameter)
- P_OFS: direct programming of the offset value (OFFS) parameter)

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- OFF: the key combination + D is disabled.

For programming the parameters listed above see parameter $D_{--}D$ of chap. 8.3.

7.7 Targets

The DD51-E allows you to set up to 32 target positions allowing you to store any relevant and frequently used settings.

7.7.1 Programming the targets

To program the targets:

- select tArGE in the main menu (see chap. 8.3)
- select PrOGt (see chap. 8.4)
- select the desired memory location (from PtGD1 to

PtG32) using the keys \square and \square

- press the key O to select.

- follow the instructions in chap. 8.1 to set the desired value.

7.7.2 Load a target:

To load a target:

- select tArGE nel menu principale (see chap. 8.3)
- select LOAdt (see chap. 8.4)
- select the desired target value (from LtGD1 to LtG32)

using the keys

$$\nabla_{\text{and}} \Delta$$

- Press the key to select.
- The selected target value is displayed.

- Press again to confirm or press the target selection list.

7.7.3 Indications for reaching the target position

When a target is selected it is sent by the PLC (RF version only), the device will suggest the direction of rotation of the shaft to reach the target through the symbols $\P \triangleright$ of



to return to

the target position indicators.

It is possible to set an acceptable tolerance value for the targets through the *PtOLL* parameter so that the target position is considered to have been reached when the difference between the set target and the current position is less than *PtOLL* in absolute value.

The target position \P indicators work, depending on the, *dir* and *PtoLL* parameters, as in the following table:

T = target value set

```
M = actual measure
```

Toll = tolerance (see PtOLL)

	dir –o	dir o
M < T - Toll	(blinking)	(blinking)
T - Toll \leq M < T	•	
M = T		
$T < M \le T + Toll$		•
M > T + Toll	(blinking)	(blinking)

7.7.4 Disabling the target

If a target is active, it can be cancelled by accessing programming mode and selecting the *StoPt* option.

7.7.5 Display in target mode

By pressing the key when a target is active, you can view the current position or the target position depending on the device settings.

It is possible to modify the function of the key and the target mode by selecting one of the options available in the menu item ____0 (see chap. 8.3)

The available options are:

- dtArG (default): when a target is activated, the display



shows the actual absolute position and the indication to reach the target (see chap. 7.7.3).

Pressing the key O shows the set target position.

- dtoGo: when a target is activated, the display flashes showing the distance from the set target and the indication to reach the target (see chap. 7.7.3). When the target is reached, less than the set tolerance, the display shows the current position and stops flashing.

Pressing the key ,the display shows the current absolute position.

7.8 Version - DD51-E-RF

7.8.1 Programming the Net ID and Net CH parameters

Each RF device is defined within the Elesa wireless network by the following two parameters:

nEt id: this is a number between 0 and 99 and differentiates different subnets allowing different systems to work on the same RF channels.

nEt ch: this is the RF transmission channel and can be set from 1 to 36. Two or more devices set to the same Net CH cannot have the same Net ID.

These parameters can be configured in the indicator's Radio menu (see chap. 8.2) and must be set according to the PLC settings to ensure perfect communication with UC-RF.

WARNING: In pre-existing systems in which a UC-RF with a firmware release prior to 0F051120 is used (for more information refer to the UC-RF manual) it is necessary to take into consideration that the Net CHs are out of phase by 3 channels. In practice, a DD51-E-RF set with Net CH = 1 will communicate with UC-RF on CH = 4 and so on for the following channels.

It will not be possible for DD51-E-RF with firmware revision 6.0 or later to communicate with older generation UC-RF on channels 1 to 3.



7.8.2 Targets

Using the DD51-E-RF, the target positions can be sent from the PLC to the indicators via the UC-RF control unit. When a target is transmitted, it behaves in the same way described in chap. 7.7.

WARNING: If the target transmission on UC-RF is enabled, it will be refreshed on the DD every time a communication occurs. Consequently, before disabling the target on the device (see chap. 7.7.4), disable the target transmission on UC-RF.

8. Programming mode

Press the key op for 3 seconds to access programming mode. Depending on the setting of the **PASS** parameter (see chap. 8.6.4), the system may ask for a password to

be entered. Press the key to scroll through the list of menu items or parameters and select the desired one by

pressing the key . Press the key to return to the previous menu level (when allowed) or exit programming mode. Programming mode is automatically exited after 30 seconds of inactivity.

8.1 Input of numeric parameters

Press the key $rac{1}{2}$ the selected digit, flashing, increases in value up to 9 and then returns to 0.

If the first digit on the left is selected and the parameter can assume negative values, -1 will be displayed after digit 9 and, by pressing the key again, -.

It is possible to select the digit to be changed by

pressing the key With each press, the digit to the right of the current one will be selected. If the selected digit is already at the far right of the display, the selection

will jump to the first digit on the left. Press the key to confirm the value entered. If the confirmed parameter is different from the one currently stored, the display will show the message *CHAnG*.



WARNING: It is not possible to cancel the insertion of a parameter value but only to confirm the displayed one. If you do not want to change the value already stored, it is obviously possible to set it to the same value as before and check that the word *CHAnG*. does not appear. Or, by waiting 30s, the device will exit programming mode without saving the changes. The value of any modified parameters is stored only when exiting the programming mode. If the operation was successful, the display will show the messag *StorE*

8.2 Programmable parameters (in alphabetical order)

Parameter	Description	Available options	Default
dir	Direction of measure. Sets the positive rotation direction of the shaft.	 - o anticlockwise o clockwise 	0
diSP	Display orientation	0° 180°	180°
OFFS	Offset values	It is possible to store up to 10 offset value: <i>OFS</i> 0 <i>OFS</i> 7 The settable values depend on the resolution set as follows: Res = 1 :-1999.9 ÷ 9999.9 Res = 0.01: -199.99 ÷ 999.99 Res = 0.001: -19.999 ÷ 99.999	۵

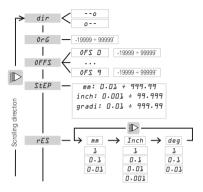
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Parameter	Description	Available options	Default
OrG	Reference value	The settable values depend on the resolution set as follows: Res = 1 :-19999 + 99999 Res = 0.1 :-199.9 + 9999.9 Res = 0.01: -199.99 + 999.99 Res =0.001: -19.999 + 99.999	0.0
Ptoll	Tolerance of target position	The settable values depend on the unit of measure in use: mm: 0.01 ÷ 9.99 inches: 0.001 ÷ 0.393 degrees: 0.01 ÷ 9.99	mm: O·lO inches: O·OO4 Degree: O·lO
Radio	RF settings	nEt id: id00 ÷ id99 nEt ch: ch01 ÷ ch36	Netid: 00 Netch: 01
rES	Resolution of the displayed measure	Depending on the unit of measurement, the permitted values are: mm: 1; 0.1; 0.01 inches: 1; 0.1; 0.01; 0.001 degrees: 1; 0.1; 0.01 An independent resolution is stored for each unit of measure.	mm: 0.01 inches: 0.01 degrees: 0.01°
SPEEd	Maximum permitted shaft rotation speed	300; 600; 1000	600

Parameter	Description	Available options	Default
StEP	Conversion coefficient between the number of shaft rotations and the selected unit of measure	The programmable values depend on the selected unit of measure: mm: 0.01 ÷ 999.99 gradi: 0.01 ÷ 99.99 gradi: 0.01 ÷ 999.99 The step value for mm and inch is the same except for the appropriate conversion when viewing the measure. The Step value for degrees is, on the other hand, independent.	001.00
0 "t_Sho"	Display mode when the target is active. In the menu appears as the setting for the O key	d_toGD or d_tArG: See chap. 7.7.5.	d_toGD
tArGe	Target positions	It is possible to store up to 10 offset values: TG 01,, TG 32. The settable values depend on the resolution set as follows: Res = 1 : -1999.9 + 9999.9 Res = 0.01: -1999.9 + 999.99 Res = 0.001: -19.999 + 99.999	0.0

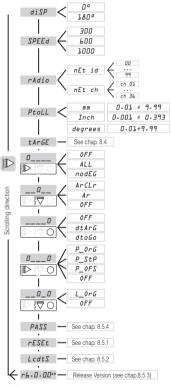


8.3 Main menu tree



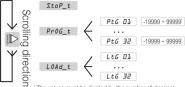
* The values must be divided by the number of decimal places of the resolution set.





"The revision code may vary depending on the actual revision of the firmware loaded on the device.

8.4 Target menu tree



* The values must be divided by the number of decimal places of the resolution set.

8.5 Additional functions

8.5.1 Reset

To restore the factory settings on the device:

- select the voice rESEt from the main menu (see chap. 8.3)
- using the key select ALL.
- press the key to confirm.

To reset the only internal reference measure:

- select the voice *rESEt* from the main menu (see chap. 8.3)
- using the key Selezionare ALL .
- press the key to confirm.

To exit the reset command, press the key in or:

- using the keys and ∇ select No.
- press the key to confirm.

8.5.2 LCD test

The *LcdtS* item in the main menu allows you to turn on all the segments and symbols of the display to check that it is working correctly.

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8.5.3 Device version

The device version code is displayed as the last item of the main menu, with the r as the first character. By pressing the key several times, other data are displayed which, if support is required, must be noted and provided to Elesa.

WARNING: A variation of the last two digits in the revision code has no impact on the device's features and performance.

8.5.4 Password

You can avoid unwanted access to the device menu by choosing "*on*" in the *PASS* menu item. In this case to enter the menu the password 22011 must be inserted.

9. Battery replacement

The internal lithium battery CR2450 - 3V guarantees a battery life of over 5 years (3 years for RF).

The symbol appears on the display when the battery needs replacing. To replace the battery, simply remove the battery cover without removing the indicator from the drive shaft, keeping all the configuration parameters unchanged. The cover is screwed with two TORX T6 screws. To facilitate the removal of the battery from the battery compartment, the use of a magnet is recommended.



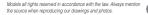
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10. Display messages and troubleshoting

Message on the display	Description	Action
	The value cannot be displayed because it exceeds the capacity of the display (-19999;99999)	In operational mode, the device continues to correctly measure the position of the shaft. If the measured value is within the capacity of the display, it will be shown correctly. If you are viewing a parameter, the problem may be due to the difference in units of measure between when it was set and when it is displayed. Change the parameter, Attempting to change a parameter when the display shows , automatically returns the parameter to the first value that can be displayed, losing the initial setting.
S_Err	The shaft has exceeded the maximum permitted rotation speed.	Press the key O to go back to reading the measured value.
Flashing battery symbol	Low Battery	Replace the battery as soon as possible (see chap. 9).



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EU DECLARATION OF CONFORMITY (DoC)

COMPANY NAME: POSTAL ADDRESS: POSTCODE AND CITY: TELEPHONE NUMBER: E-MAIL ADDRESS: Elesa S.p.a. Via Pompei 29 20900 Monza +39 039 28111 info@elesa.com

Declare that the DoC is issued under our sole responsibility and belongs to the following product:

PRODUCT: APPARATUS MODEL: TRADE MARK: Electronic Position Indicators DD51-E Elesa

The object of the Declaration described above is in conformity with the relevant Union Harmonization Legislation:

2014/30/UE (EMC): Electromagnetic Compatibility Directive

2011/65/UE (RoHS): Restriction of the use of certain Hazardous Substances in electrical and electronic equipment

The following harmonized standards and technical specifications have been applied:

EN 61326-1:2013

Notified Body:

Not Involved (Annex II - Conformity Assessment Module A)

Additional information:

Software Version: 5.1 or higher

PLACE, DATE OF ISSUE:

Monza - Italy

17/05/2021

CARLO BERTANI

MANAGING DIRECTOR

GENERAL MANAGER



EU DECLARATION OF CONFORMITY (DoC)

COMPANY NAME: POSTAL ADDRESS: POSTCODE AND CITY: TELEPHONE NUMBER: E-MAIL ADDRESS: Elesa S.p.a. Via Pompei 29 20900 Monza +39 039 28111 info@elesa.com

Declare that the DoC is issued under our sole responsibility and belongs to the following product:

PRODUCT: APPARATUS MODEL: TRADE MARK: Electronic Position Indicators DD51-E-RF Elesa

The object of the Declaration described above is in conformity with the relevant Union Harmonization Legislation:

2014/53/EU (RED) Radio Equipment Directive 2011/65/UE (RoHS) Restriction of the use of certain Hazardous Substances in electrical and electronic equipment

The following harmonized standards and technical specifications have been applied:

EN 62311:2008 EN 61010-1:2010 ETSI EN 301 489-1 V2.1.1 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.1.1 Draft ETSI EN 301 489-17 V3.2.2 EN 61326-1:2013 ETSI EN 300 328 V2.2.2

Notified Body:

Not Involved (Annex II - Conformity Assessment Module A)

Additional information:

Software Version: 5.1 or higher

PLACE, DATE OF ISSUE:

Monza - Italy

17/05/2021

CARLO BERTANI

MANAGING DIRECTOR

GENERAL MANAGER



Elesa S.p.A., Monza, May 2021

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