

User Manual

Revision 1.000
English

CAN / CANopen – Converter

(Order Code: HD674-A031)

For Website information:

www.adfweb.com?Product=HD674-A031

For Price information:

www.adfweb.com?Price=HD674-A031

Benefits and Main Features:

- ⊕ Very easy to configure
- ⊕ Wide supply input range
- ⊕ Electrical isolation
- ⊕ Industrial temperature range:
- ⊕ -40°C / 105°C (-40°F / 221°F)



User Manual



For others Gateways / Bridges:

J1939 to Modbus

See also the following links:

www.adfweb.com?Product=HD67212 (Modbus RTU)

CANopen to Modbus

See also the following links:

www.adfweb.com?Product=HD67001 (Modbus RTU Master)

www.adfweb.com?Product=HD67002 (Modbus RTU Slave)

www.adfweb.com?Product=HD67004 (Modbus TCP Master)

www.adfweb.com?Product=HD67005 (Modbus TCP Slave)

For others Gateways / Bridges:

For **CAN bus 2.0A** and/or **CAN bus 2.0B to Modbus**

See also the following links:

www.adfweb.com?Product=HD67011 (Modbus RTU Slave)

www.adfweb.com?Product=HD67012 (Modbus RTU Master)

www.adfweb.com?Product=HD67014 (Modbus TCP Slave)

www.adfweb.com?Product=HD67015 (Modbus TCP Master)

Do you have an your customer protocol?

See the following links:

www.adfweb.com?Product=HD67003

Do you need to choose a device? do you want help?

Ask it to the following link:

www.adfweb.com?Cmd=helpme

INDEX:

	Page
INDEX	2
UPDATED DOCUMENTATION	2
REVISION LIST	2
WARNING	2
TRADEMARKS	2
SECURITY ALERT	3
EXAMPLES OF CONNECTION	4
CONNECTION SCHEME	5
CHARACTERISTICS	7
CONFIGURATION	7
POWER SUPPLY	8
LEDS	9
CAN	10
CANopen	11
USB	12
USE OF COMPOSITOR SW674-A031	13
NEW PROJECT / OPEN PROJECT	14
SOFTWARE OPTIONS	15
SET COMMUNICATION	17
RECEIVE CAN	18
DEFINE SDO	19
DEFINE TPDO	20
TRANSMIT CAN	21
DEFINE SDO	22
DEFINE RPDO	23
SET SDO CLIENT	24
SET NODEGUARDING	26
UPDATE DEVICE	27
NMT REQUESTS	29
MECHANICAL DIMENSIONS	30
ORDER CODE	34
ACCESSORIES	35
DISCLAIMER	36
OTHER REGULATIONS AND STANDARDS	36
WARRANTIES AND TECHNICAL SUPPORT	37
RETURN POLICY	37

UPDATED DOCUMENTATION:

Dear customer, we thank you for your attention and we remind you that you need to check that the following document is:

- ✚ Updated
- ✚ Related to the product you own

To obtain the most recently updated document, note the “document code” that appears at the top right-hand corner of each page of this document.

With this “Document Code” go to web page www.adfweb.com/download/ and search for the corresponding code on the page. Click on the proper “Document Code” and download the updates.

REVISION LIST:

Revision	Date	Author	Chapter	Description
1.000	15/06/2017	Ff	All	First released version

WARNING:

ADFweb.com reserves the right to change information in this manual about our product without warning.
ADFweb.com is not responsible for any error this manual may contain.

TRADEMARKS:

All trademarks mentioned in this document belong to their respective owners.

SECURITY ALERT:**GENERAL INFORMATION**

To ensure safe operation, the device must be operated according to the instructions in the manual. When using the device, legal and safety regulation are required for each individual application. The same applies also when using accessories.

INTENDED USE

Machines and systems must be designed so the faulty conditions do not lead to a dangerous situation for the operator (i.e. independent limit switches, mechanical interlocks, etc.).

QUALIFIED PERSONNEL

The device can be used only by qualified personnel, strictly in accordance with the specifications. Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

RESIDUAL RISKS

The device is state-of-the-art and is safe. The instruments can represent a potential hazard if they are inappropriately installed and operated by untrained personnel. These instructions refer to residual risks with the following symbol:

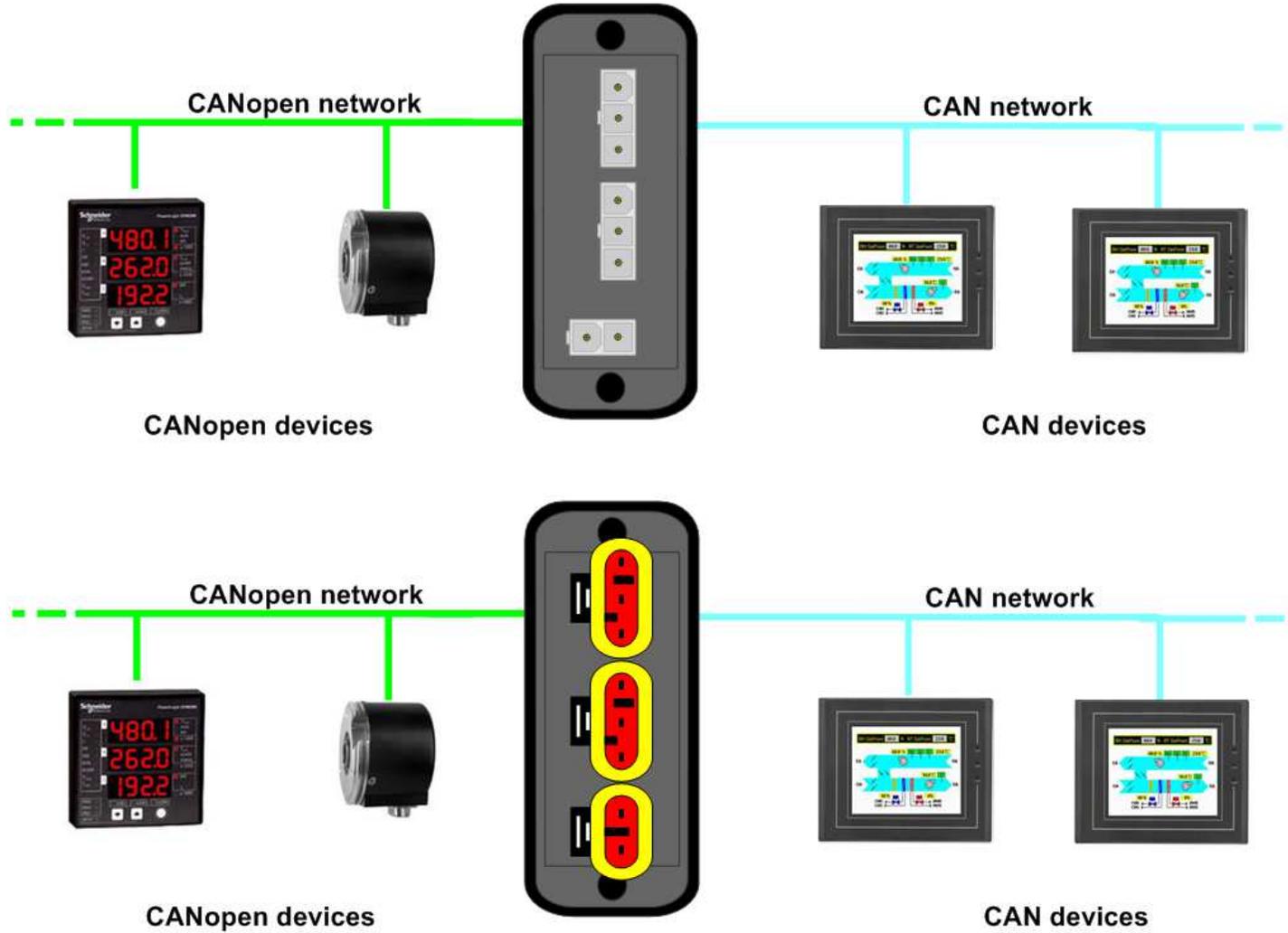


This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

CE CONFORMITY

The declaration is made by our company. You can send an email to support@adfweb.com or give us a call if you need it.

EXAMPLE OF CONNECTION:



CONNECTION SCHEME:



Figure 1a: Connection scheme for HD674-A031-E4x-xxx

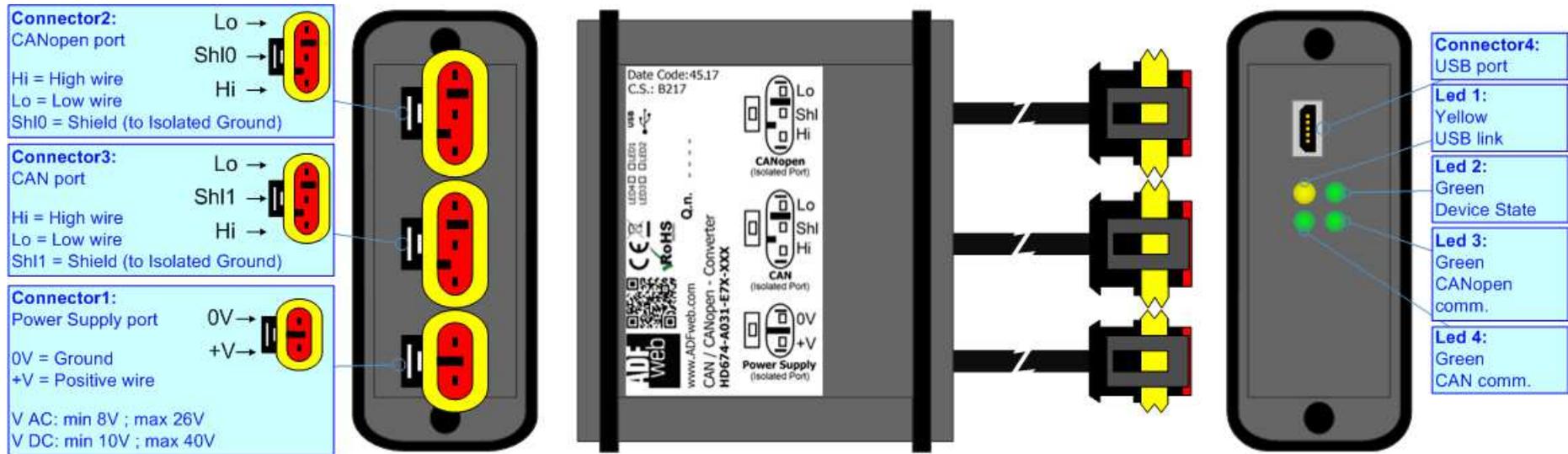


Figure 1b: Connection scheme for HD674-A031-E7x-xxx

CHARACTERISTICS:

The "HD674-A031" series are rugged devices used to interface CAN devices with CANopen devices.

With his particular enclosure, equipped with four fixing lugs, makes available the mounting of the device in any plane surface (horizontal, vertical, oblique).

It is possible to have the device varnished or totally resined and also in both cases with "Mini-Fit®" connectors or "AMP SuperSeal 1.5" connectors. If is resined, the enclosure, like the "AMP SuperSeal 1.5" connectors, is waterproof (IP63).

All the four series have these characteristics:

- Triple 4kV isolation between Power Supply / CANopen / CAN;
- Varnished / Resined (optionally);
- Wide power supply input range: 8...26V AC | 10...40V DC;
- Mini-Fit® / AMP SuperSeal 1.5 connectors;
- Metal enclosure with fixing lugs;
- Possibility to use Metal hose clamps for fixing it without using lugs;
- Microprocessor for data control;
- Wide temperature range: -40°C / 105°C (-40°F / 221°F).

CONFIGURATION:

You need Compositor SW674-A031 software on your PC in order to perform the following:

- Define that CAN frames of the CAN network are reading from CANopen;
- Define that CAN frames of the CAN network are writing from CANopen;
- Define the Receive PDO;
- Define the Transmit PDO;
- Define SDO Server in read;
- Define SDO Server in write;
- Define the CAN frames to send the SDO client request;
- Define the CAN frames to send the state of Node Guard of the CANopen devices;
- Update the device.

POWER SUPPLY:

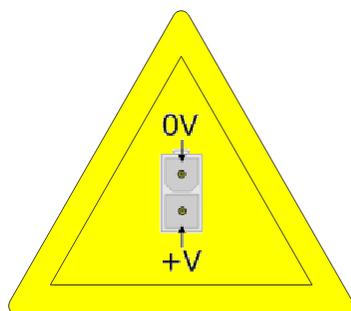
The devices can be powered between a wide range of tensions. For more details see the two tables below.

	VAC		VDC	
	Vmin	Vmax	Vmin	Vmax
HD674-A031-Exx-xxx	8V	26V	10V	40V

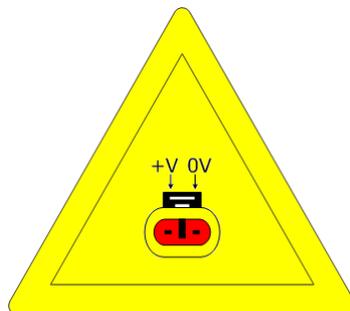
Consumption at 24V DC:

Device	W/VA
HD674-A031-Exx-xxx	4

Caution: Not reverse the polarity power

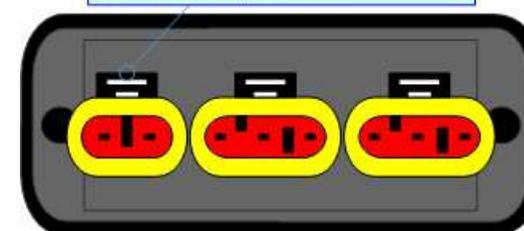
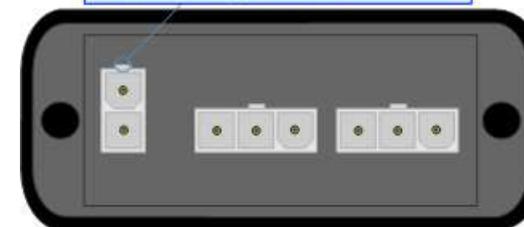


HD674-A031-E4x-xxx



HD674-A031-E7x-xxx

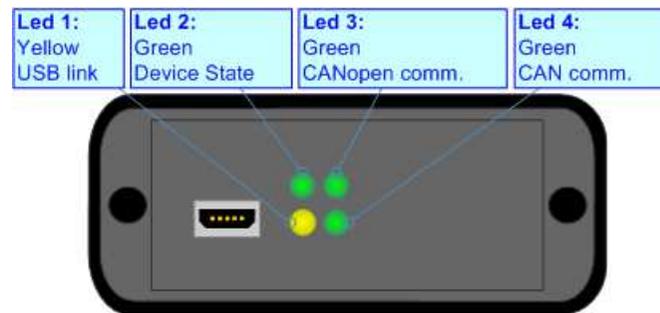
Note: It is possible to use also negative tensions. In this case the polarity must be inverted.



LEDS:

The device has got four LEDs that are used to give information of the functioning status. The various meanings of the LEDs are described in the table below.

LED	Normal Mode	Boot Mode
1: USB link (yellow)	ON: USB cable inserted OFF: USB cable not inserted	ON: USB cable inserted OFF: USB cable not inserted
2: Device state (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: CANopen communication (green)	Blinks when CANopen frames are received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: CAN communication (green)	Blinks when CAN frames are received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



CAN:

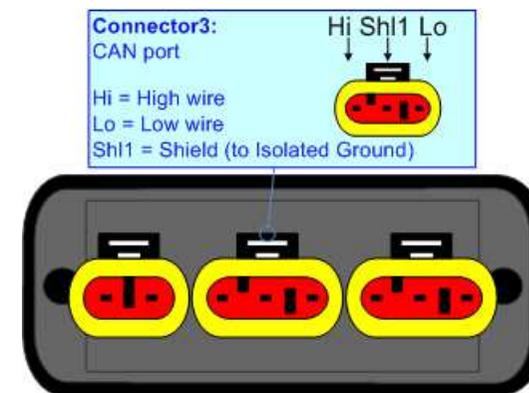
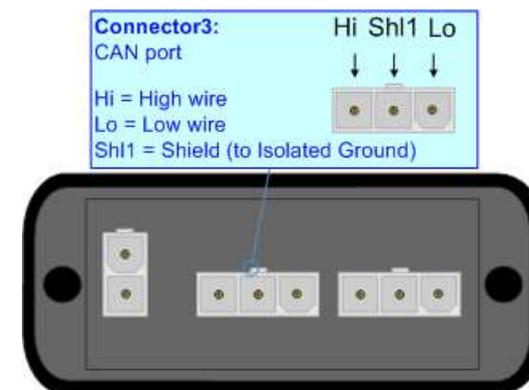
The connection of CAN in the HD674-A031-E4x-xxx device must be made with a 3way MiniFit Female connector. The pinout of Male Mini-Fit connector of the board is at right side of the page.

The connection of CAN in the HD674-A031-E7x-xxx device must be made with a AMP SuperSeal 1.5 Male connector. The pinout of Female connector of the board is at right side of the page.

The termination of CAN line, with a 120Ω resistor, in the HD674-A031-Exx-xxx is made internally of the device; when the order is performed. If the device have the CAN terminated the code is the follow: HD674-A031-Exx-xYx; otherwise is this other: HD674-A031-Exx-xNx.

Cable characteristics:

DC parameter:	Impedance	70 Ohm/m
AC parameters:	Impedance	120 Ohm/m
	Delay	5 ns/m
Length	Baud Rate [bps]	Length MAX [m]
	10 K	5000
	20 K	2500
	50 K	1000
	100 K	650
	125 K	500
	250 K	250
	500 K	100
	800 K	50
	1000 K	25



CANopen:

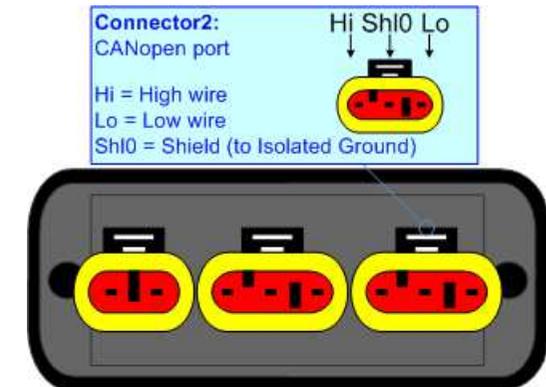
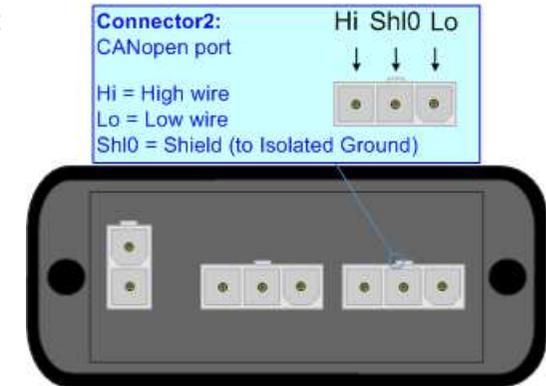
The connection of CANopen in the HD674-A031-E4x-xxx device must be made with a 3way MiniFit Female connector. The pinout of Male Mini-Fit connector of the board is at right side of the page.

The connection of CANopen in the HD674-A031-E7x-xxx device must be made with a AMP SuperSeal 1.5 Male connector. The pinout of Female connector of the board is at right side of the page.

The termination of CANopen line, with a 120Ω resistor, in the HD674-A031-Exx-xxx is made internally of the device; when the order is performed. If the device have the CANopen terminated the code is the follow: HD674-A031-Exx-Yxx; otherwise is this other: HD674-A031-Exx-Nxx.

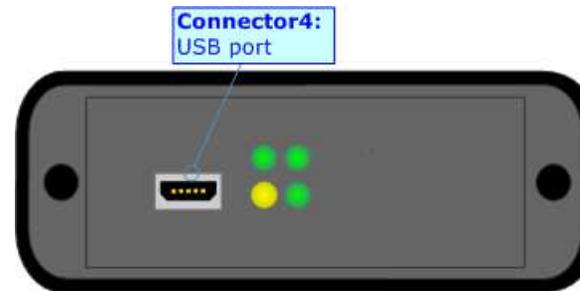
Cable characteristics:

DC parameter:	Impedance	70 Ohm/m
AC parameters:	Impedance	120 Ohm/m
	Delay	5 ns/m
Length	Baud Rate [bps]	Length MAX [m]
	10 K	5000
	20 K	2500
	50 K	1000
	100 K	650
	125 K	500
	250 K	250
	500 K	100
	800 K	50
	1000 K	25



USB:

The USB port is used to start the converter in Boot Mode and to program the converter. It is necessary to use a Micro USB type B cable.



USE OF COMPOSITOR SW674-A031:

To configure the Converter, use the available software that runs with Windows called SW674-A031. It is downloadable on the site www.adfweb.com and its operation is described in this document. (This manual is referenced to the last version of the software present on our web site). The software works with MSWindows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the SW674-A031, the window below appears (Fig. 2).

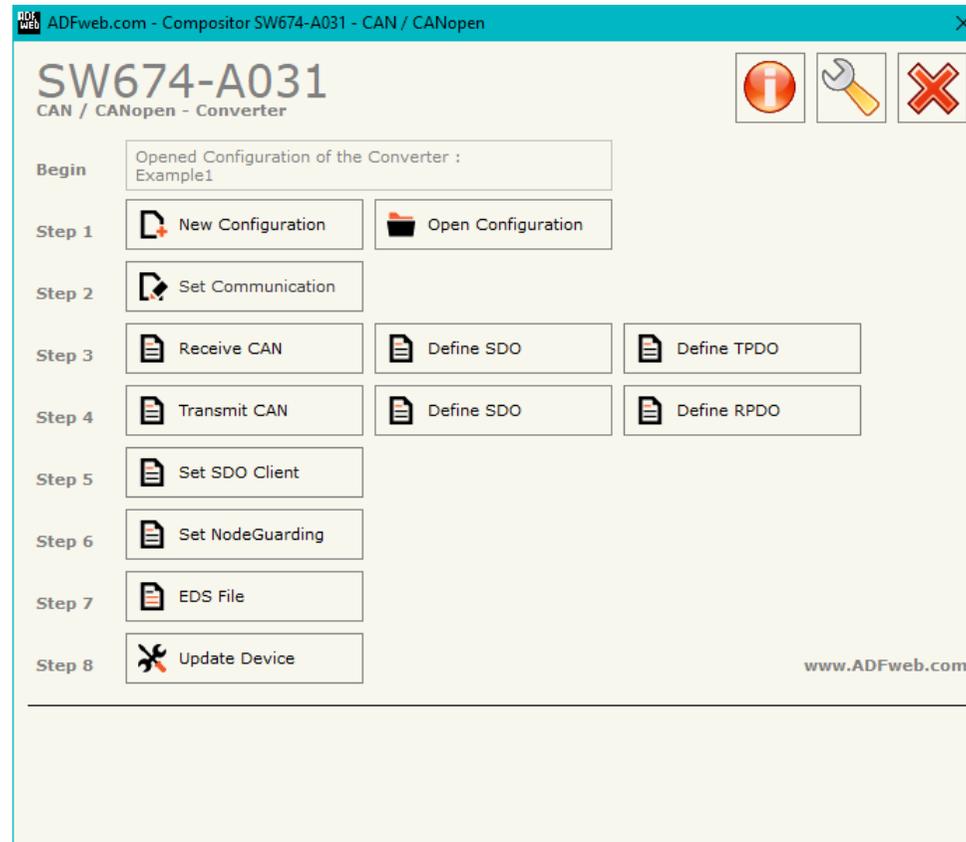
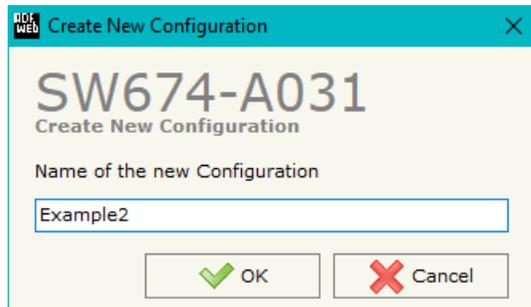


Figure 2: Main window for SW674-A031

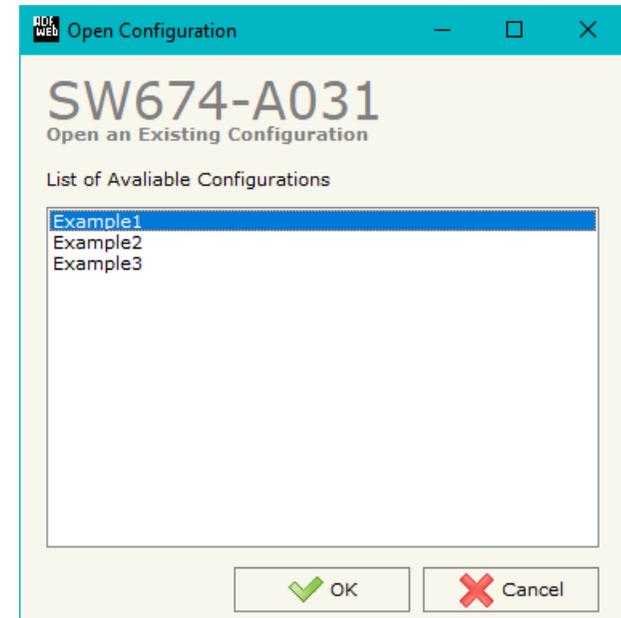
NEW CONFIGURATION / OPEN CONFIGURATION:

The “**New Configuration**” button creates the folder which contains the entire device’s configuration.



A device’s configuration can also be imported or exported:

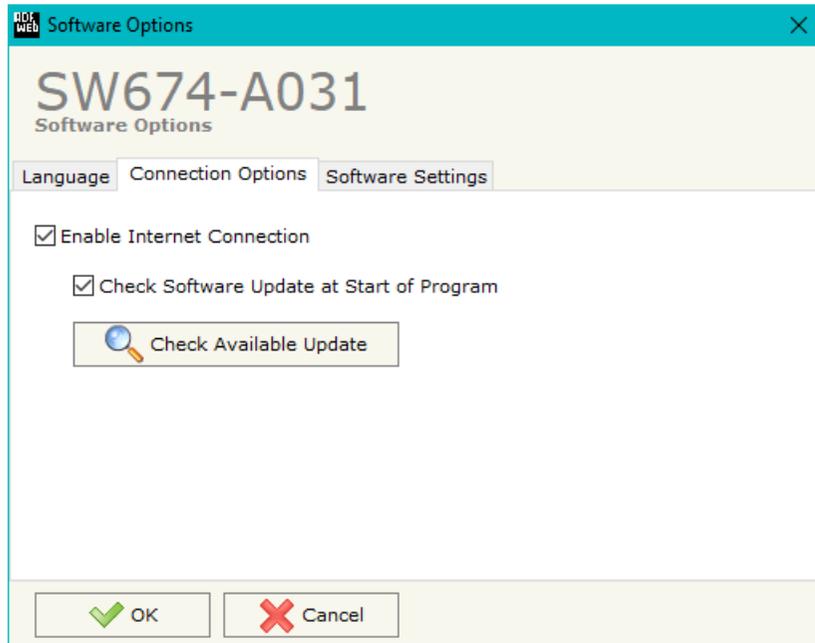
- To clone the configurations of a programmable “CAN / CANopen - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button “**Open Configuration**”.



SOFTWARE OPTIONS:

By pressing the “**Settings**” () button there is the possibility to change the language of the software and check the updatings for the compositor.

In the section “Language” it is possible to change the language of the software.



In the section “Connection Options”, it is possible to check if there are some updatings of the software compositor in ADFweb.com website. Checking the option “**Check Software Update at Start of Program**”, the SW674-A031 checks automatically if there are updatings when it is launched.



In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.

SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, CAN and CANopen.

By Pressing the **"Set Communication"** button from the main window for SW67042 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "CAN" section are:

- In the field **"Baudrate"** the data rate of the CAN is defined.

The means of the fields for "CANopen" are:

- In the field **"ID Device"** the CANopen ID for the converter is defined;
- In the field **"Baudrate"** the data rate of the CANopen is defined;
- If the field **"Set Operational State at Start-up"** is checked, the state of the CANopen is defined. I.e. if it is checked the board starts in Operational State, else it starts in Pre-Operational;
- If the field **"Network Start at Start-up"** is checked, the state of the CANopen network is defined. I.e. if it is checked the board sends a command to set the Operational State of all the devices present in the network. In the field **"Delay (s)"** the delay before sending the network command for the CANopen is defined;
- If the field **"Enable SDO Client"** is checked, the SDO Client function is enabled. In the field **"TimeOut SDO (1/10ms)"** the timeout for the SDO requests is defined;
- If the field **"Enable NodeGuarding"** is checked, the NodeGuarding function is enabled. It is possible to send the NodeGuarding information on CAN checking the option **"Send Nodes State on CAN Network"** with the defined delay in **"Send Frames every (ms)"** field;
- If the field **"Enable NMT Service"** is enabled, it is possible to send NMT messages to CANopen devices from CAN. In the field **"CAN Frame for NMT"** the COB-ID for the CAN message is defined. Please, see page XX for more info.

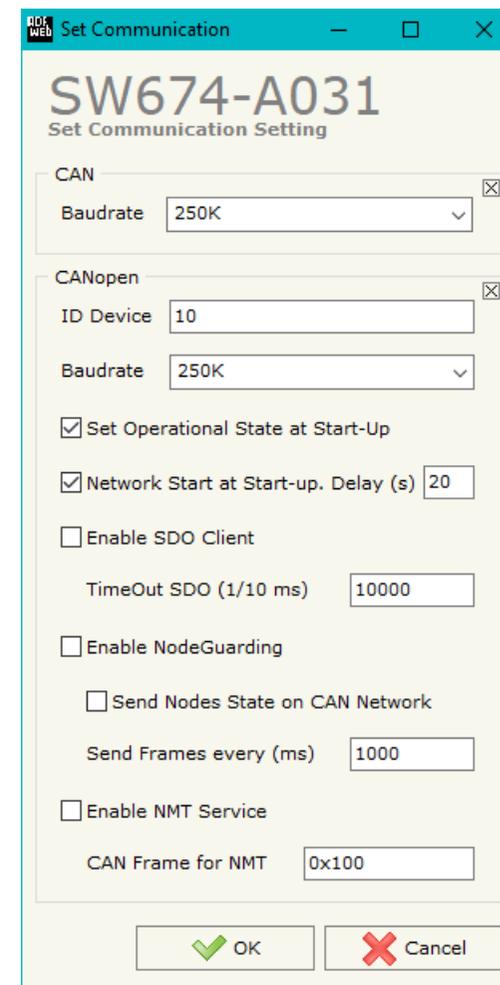


Figure 3: "Set Communication" window

RECEIVE CAN:

By pressing the "Receive CAN" button from the main window for SW674-A031 (Fig. 2) the window "Receive CAN Frames" appears (Fig. 4). This section is used to define the CAN messages accepted by the converter.

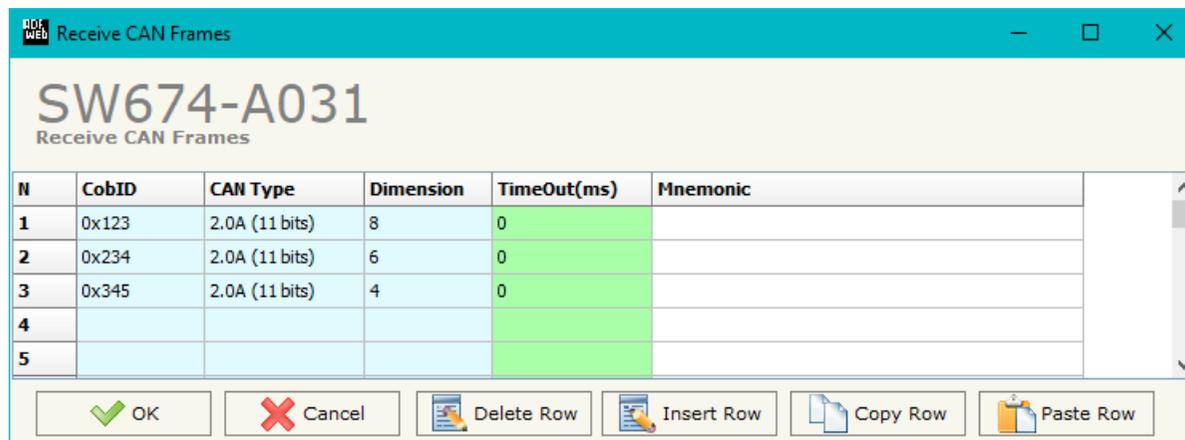


Figure 4: "Receive CAN Frames" window

The means of the fields of the table are:

- In the field "Cob-ID" the Cob-ID of the CAN frame is defined;
- In the field "Type" the type of the CAN protocol used for each frame (CAN 2.0A (11 bits) or CAN 2.0B (29 bits)) is defined;
- In the field "Dimension" the number of bytes of the CAN frame (the maximum dimension is 8 Bytes) is defined;
- In the field "TimeOut" the TimeOut is defined; if the CAN frame is not received in the timeout defined, the value of the data on CANopen side become "0";
- In the field "Mnemonic" a description of the frame is defined.

DEFINE SDO

By pressing the **Define SDO** button near "Receive CAN" from the main window for SW674-A031 (Fig. 2) the window "Define Read Server SDOs for Receive CAN Frames" appears (Fig. 5):

- In the field **List of Receive CAN Frames** there is the list of CAN Frames that you inserted in "Receive CAN" section.
- In the field **List of Server SDO in Read** there are the SDOs Objects in read.
- In the field **Create/Modify a Server SDO** you can define the Index, SubIndex and the Dimension of the SDO Object to create and the bytes of the CAN frame which you will map in.

For example:

Click on the CAN frame, insert the valid parameters in the fields "Index SDO", "SubIndex SDO" and "Dimension SDO", select which bytes of the CAN frame you want to map inside the SDO, click the "Create" button. In the field "List of Server SDO in Read" appears the new SDO Object created.

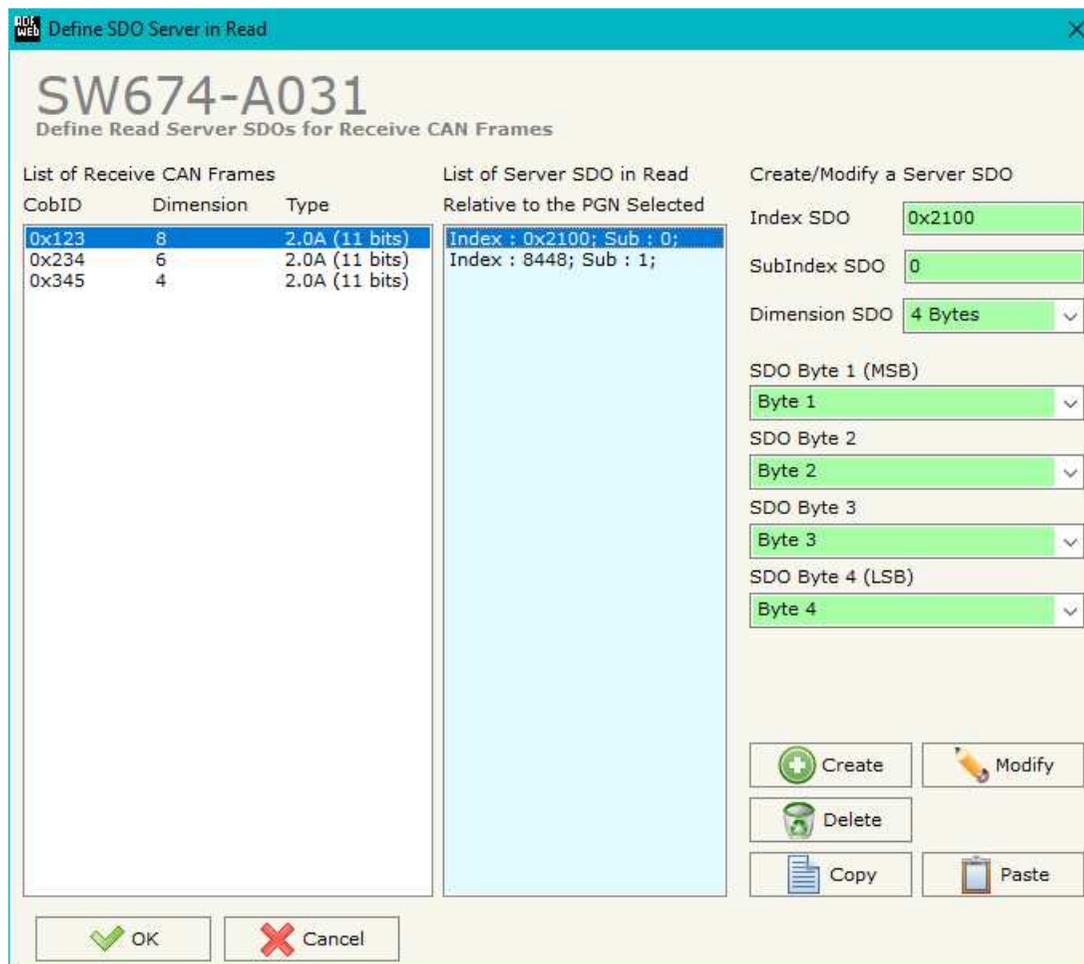
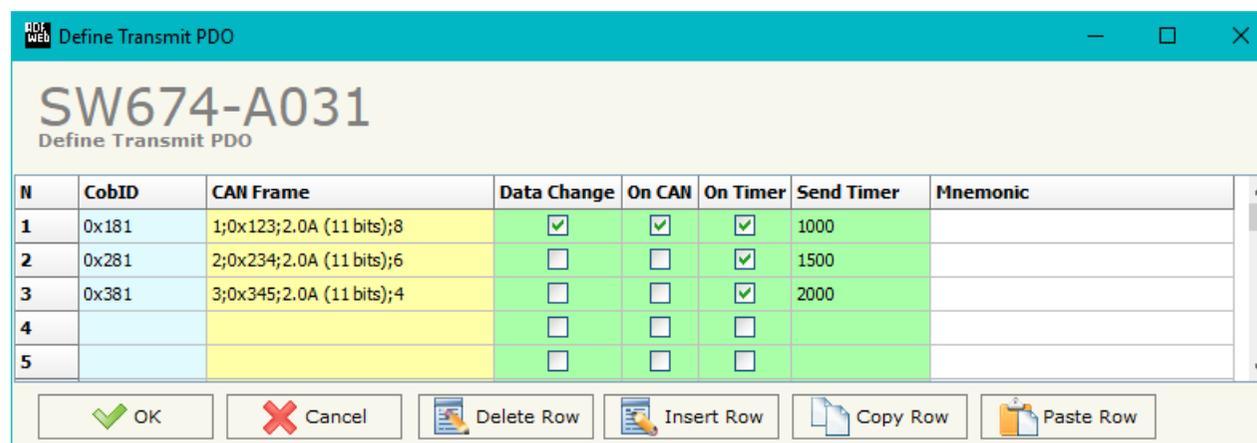


Figure 5: "Define Read Server SDOs for Receive CAN Frames" window

DEFINE TPDO:

By pressing the **Define TPDO** button from the main window of SW674-A031 (Fig. 2) the window "Define Transmit PDO" appears (Fig. 6). This section is used to define the TPDO messages sent by the converter.



N	CobID	CAN Frame	Data Change	On CAN	On Timer	Send Timer	Mnemonic
1	0x181	1;0x123;2.0A (11 bits);8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1000	
2	0x281	2;0x234;2.0A (11 bits);6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1500	
3	0x381	3;0x345;2.0A (11 bits);4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2000	
4			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

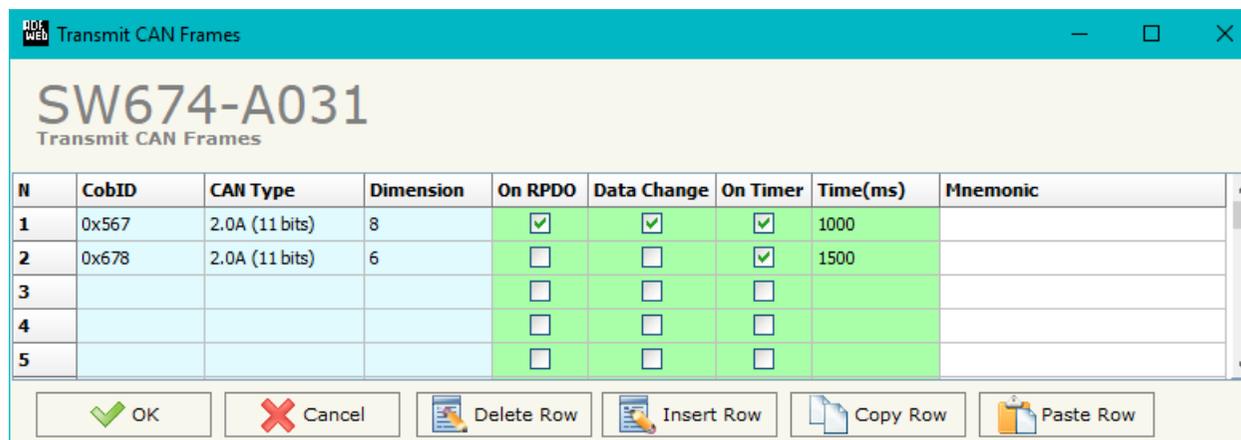
Figure 6: "Define Transmit PDO" window

The means of the fields of the table are:

- In the field **CobID** the Cob-ID of the PDO is defined;
- In the field **CAN Frame** the CAN frame to link to the TPDO is defined;
- If the field **Data Change** is checked, the TPDO frame is sent when the data into the linked CAN frame change;
- If the field **On CAN** is checked, the TPDO is transmitted when the CAN frame linked is received;
- If the field **On Timer** is checked, the TPDO is sent cyclically;
- In the field **Timer (ms)** the cyclic delay for the "On Timer" option is defined;
- In the field **Mnemonic** the description for the frame is defined.

TRANSMIT CAN:

By pressing the **Transmit CAN** button from the main window of SW674-A031 (Fig. 2) the window "Transmit CAN" appears (Fig. 7). This section is used to define the CAN messages sent by the converter.



N	CobID	CAN Type	Dimension	On RPDO	Data Change	On Timer	Time(ms)	Mnemonic
1	0x567	2.0A (11 bits)	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1000	
2	0x678	2.0A (11 bits)	6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1500	
3				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Figure 7: "Transmit CAN Frames" window

The means of the fields of the table are:

- In the field **Cob-ID** the Cob-ID of the CAN frame is defined;
- In the field **Type** the type of the CAN protocol used for each frame (CAN 2.0A (11 bits) or CAN 2.0B (29 bits)) is defined;
- In the field **Dimension** the number of bytes of the CAN frame (the maximum dimension is 8 Bytes) is defined;
- If the field **On RPDO** is checked, the CAN frame is transmitted when the RPDO linked is received;
- If the field **On Change** is checked, the CAN frame is sent when the data of the RPDO linked change;
- If the field **On Timer** is checked, the CAN frame is sent cyclically;
- In the field **Timer (ms)** the cyclic delay for the "On Timer" option is defined;
- In the field **Mnemonic** the description for the frame is defined.

DEFINE SDO

By pressing the **Define SDO** button near "Transmit CAN" from the main window for SW674-A031 (Fig. 2) the window "Define Write Server SDOs for Transmit CAN Frames" appears (Fig. 8):

- In the field **"List of Transmit CAN Frames"** there is the list of CAN Frames that you inserted in "Transmit CAN" section.
- In the field **"List of Server SDO in Write"** there are the SDOs Objects in read.
- In the field **"Create/Modify a Server SDO"** you can define the Index, SubIndex and the Dimension of the SDO Object to create and the bytes of the CAN frame which you will map to.
- With the field **"Send CAN frame When Write SDO"** it is possible to decide when sending the CAN frame. If this option is "True", the CAN frame is transmitted when the selected SDO is written.

For example:

Click on the CAN frame, insert the valid parameters in the fields "Index SDO", "SubIndex SDO" and "Dimension SDO", select which bytes of the CAN frame you want to map inside the SDO, click the "Create" button. In the field "List of Server SDO in Write" appears the new SDO Object created.

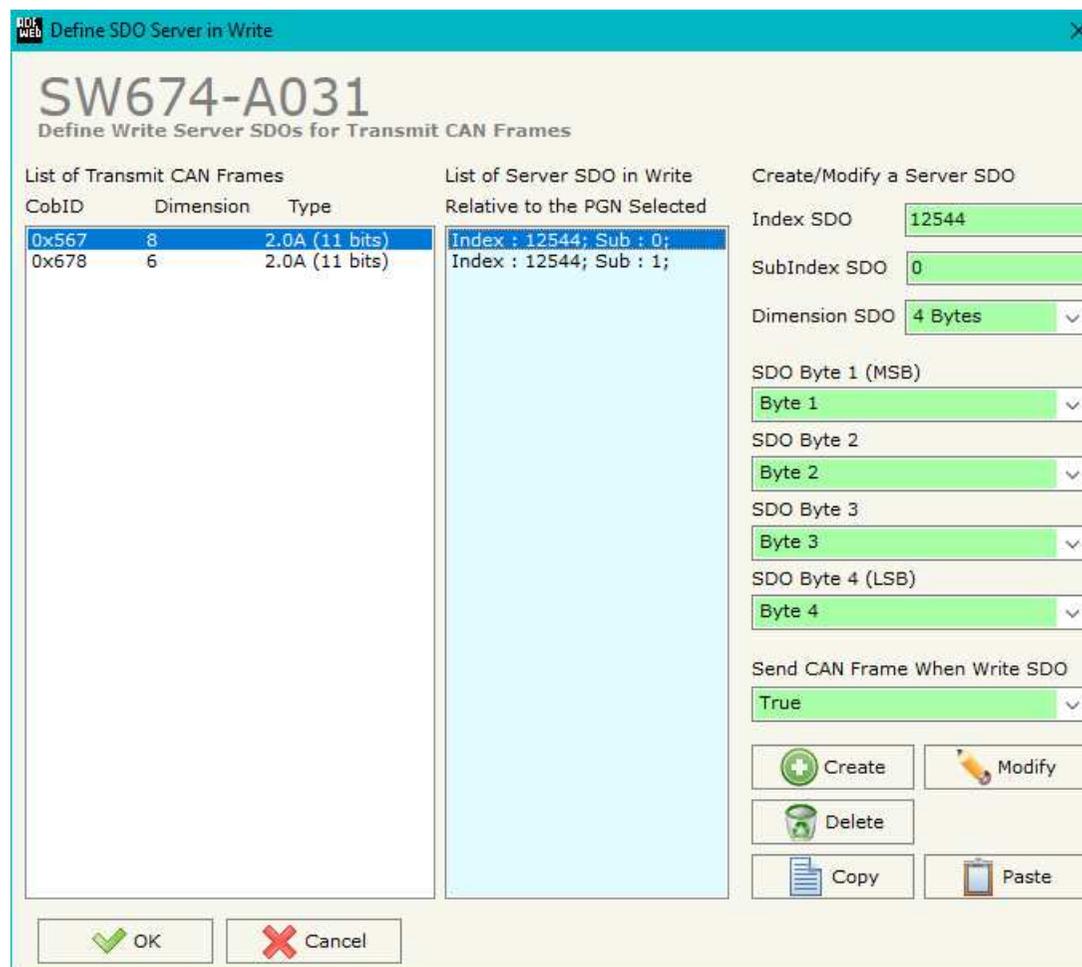


Figure 8: "Define Write Server SDOs for Transmit CAN Frames" window

DEFINE RPDO:

By pressing the **Define RPDO** button from the main window of SW674-A031 (Fig. 2) the window "Define Receive PDO" appears (Fig. 9). This section is used to define the RPDO messages accepted by the converter.

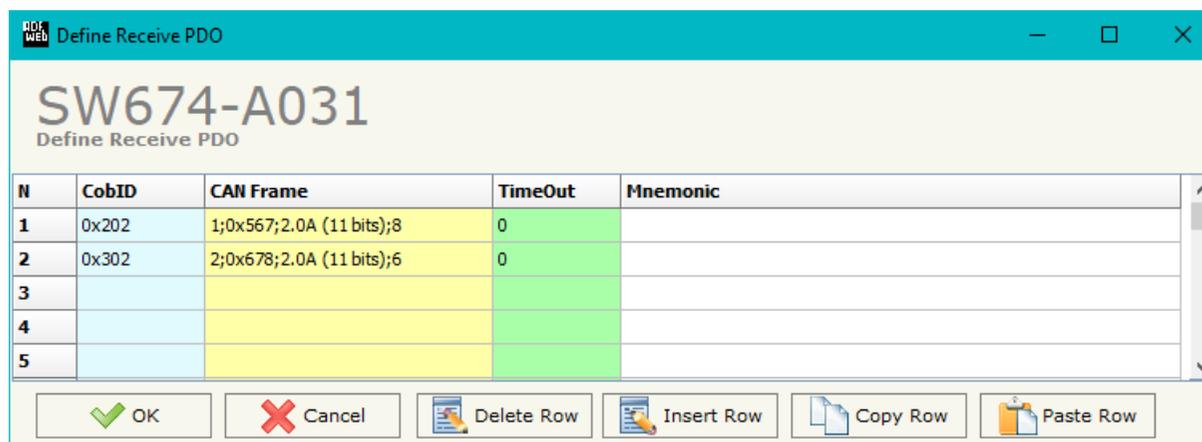


Figure 9: "Define Receive PDO" window

The means of the fields of the table are:

- ✦ In the field **Cob-ID** the Cob-ID of the PDO is defined;
- ✦ In the field **CAN Frame** the CAN frame to link to the RPDO is defined;
- ✦ If the field **TimeOut** the TimeOut is defined; after the TimeOut defined, the value of the data of the PDO become "0";
- ✦ In the field **Mnemonic** a description of the frame is defined.

SET SDO CLIENT:

By pressing the **Set SDO Client** button from the main window of SW674-A031 (Fig. 2) the window "Define CAN Frames to use the Client SDO" appears (Fig. 10).

In this window is possible to configure five CAN messages used to read and write SDO data from other devices in the network CANopen.

The first two frames are used to read a SDO, the last three messages are used to write a SDO.

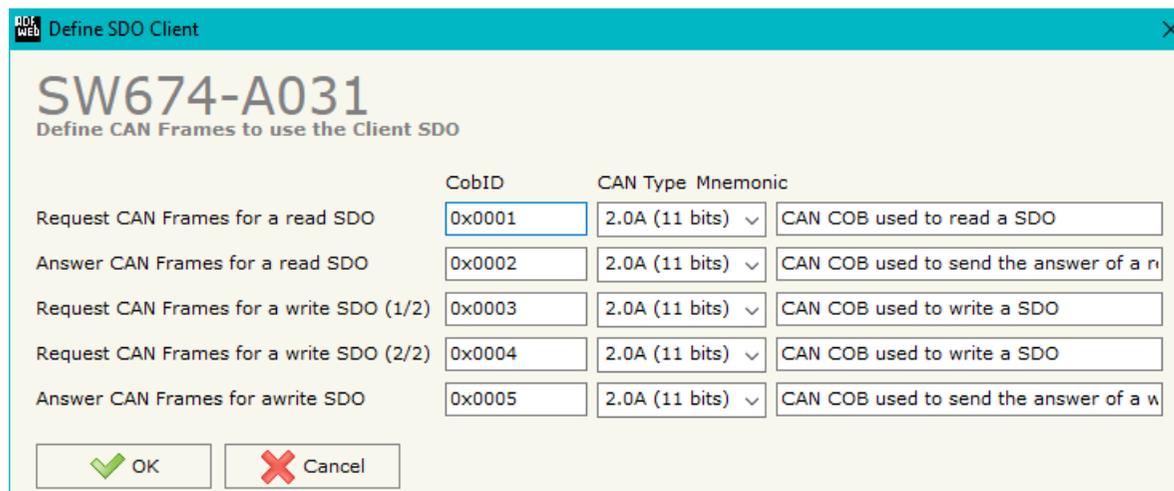


Figure 10: "Define CAN Frames to use the Client SDO" window

READ SDO

Request frame CAN to read a SDO

When the gateway receive this message, it sends a read SDO request to CANopen network.

The coordinates of the SDO are inside the data bytes of the CAN message in this format:

Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
ID Device	Index	Index	SubIndex	Num Byte	Not used = 0	Not used = 0	Not used = 0

Answer frame CAN of a read SDO

The gateway sends this frame with the answer of the SDO.

The Data bytes of this message are so formed:

Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
ID Device REQ	Index REQ	Index REQ	SubIndex REQ	Data byte 1	Data byte 2	Data byte 3	Data byte 4

WRITE SDO

Request frame CAN to write a SDO (1/2)

When the gateway receive this message it save the coordinates of write SDO request.

The coordinates of the SDO are inside the data bytes of the CAN message in this format:

Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
ID Device	Index	Index	SubIndex	Num Byte	Not used = 0	Not used = 0	Not used = 0

Request frame CAN to write a SDO (2/2)

When the gateway receive this message it send the SDO write request in CANopen network.

The coordinates of the SDO are inside the data bytes of the CAN message in this format:

Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
Data Byte 1	Data Byte 2	Data Byte 3	Data Byte 4	Not used = 0			

Answer frame CAN of a write SDO

The gateway send this frame when a Write SDO request finish correctly.

The Data byte of this message are so formed:

Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7	Byte8
ID Device REQ	Index REQ	Index REQ	SubIndex REQ	1	Not used = 0	Not used = 0	Not used = 0

SET NODEGUARDING:

By pressing the “**Set NodeGuarding**” button from the Main Window of SW674-A031 (Fig. 2) the “Define Node Guarding” window appears (Fig. 11).

- In the field “**Node ID**”, the address of the CANopen device that you want to control is defined. It is possible to insert up to 32 address;
- In the field “**Guard Time**”, the Guard Time is defined. This value indicates the delay between two interrogations;
- In the field “**Life Time Factor**”, the number of attempts before considering the device absent is defined;
- In the field “**Mnemonic**”, a description is defined.

In the fields below, it is possible to define the CAN messages where mapping the informations of the Node Guarding. The first byte of each CAN frame will contain the status of 7 CANopen devices (1 = present or 0 = not present). The others 7 bytes will contain the status of the monitored CANopen devices.

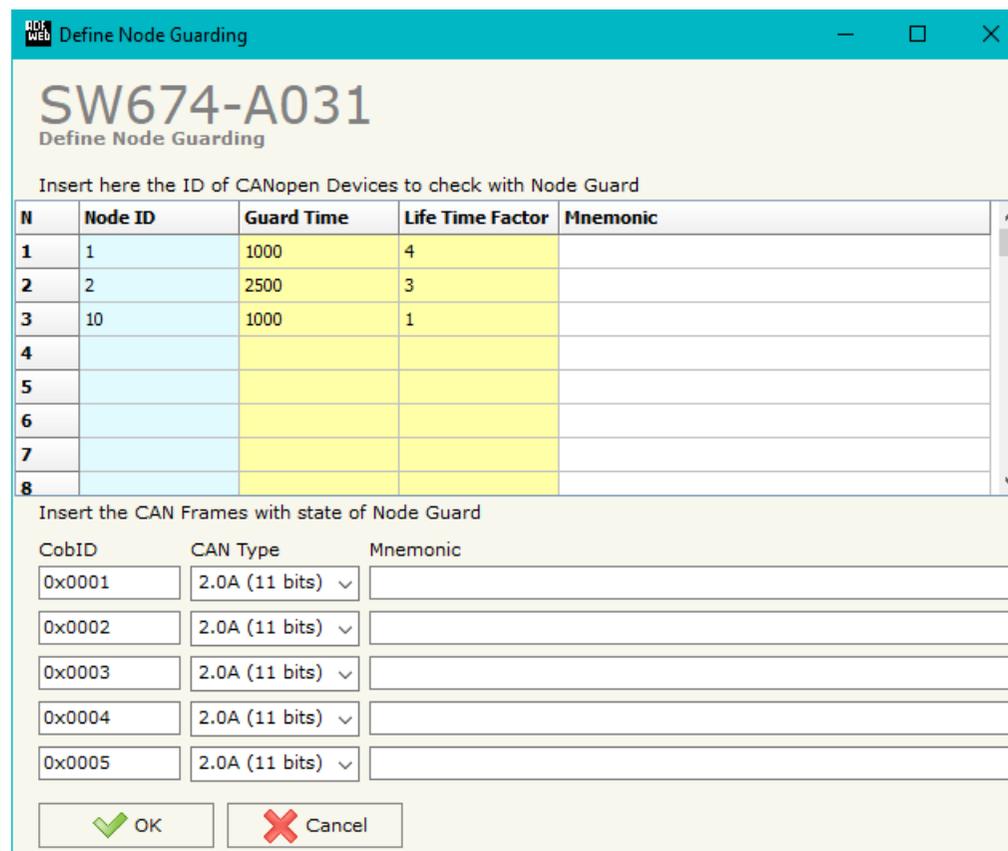


Figure 11: “Define Node Guarding” window

EDS FILE:

By Pressing the “**EDS File**” button from the main window for SW674-A031 (Fig. 2) it is possible to generate the EDS file to be imported into the CANopen Client.

UPDATE DEVICE USB:

By pressing the **"Update Device USB"** button it is possible to load the created Configuration into the device, and also the Firmware if is necessary, using the USB port.

In order to load the parameters or update the firmware in the device, follow these instructions:

- Connect the USB cable from your PC to the Converter;
- Turn ON the converter (it starts in Boot Mode);
- Select the **"COM port"**;
- Select which operations you want to do.
- Press the **"Execute update firmware"** button to start the upload;
- When all the operations are "OK", disconnect the USB cable.

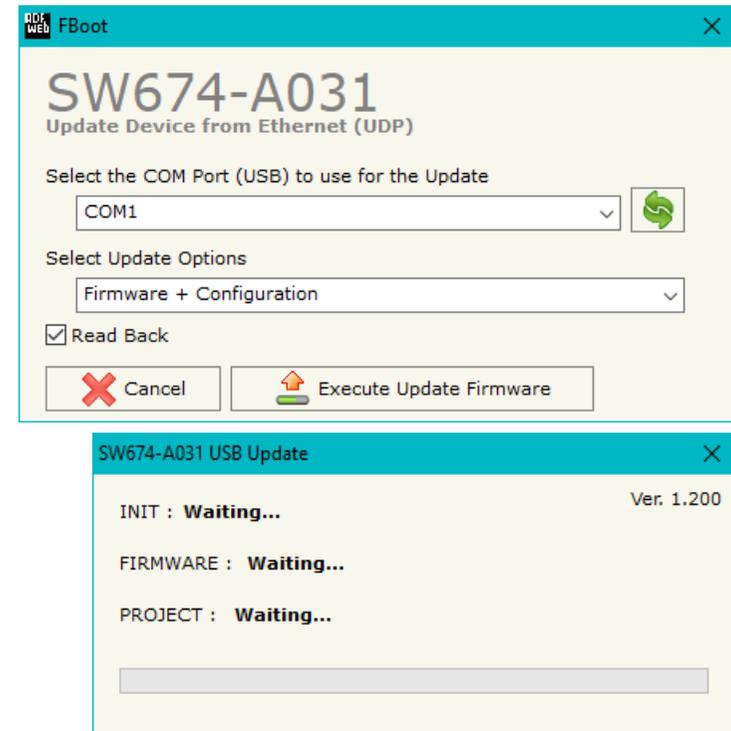


Figure 12: "Update Device" windows

 **Note:**
When you install a new version of the software it is better if the first time you do the update of the Firmware in the HD674-A031 device.

 **Note:**
When you receive the device, for the first time, you have to update also the Firmware in the HD674-A031 device.

 **Warning:**
If the Fig. 13 appears when you try to do the Update before require assistance try these points:

- Check if the serial COM port selected is the correct one;
- Check if the USB cable is connected between the PC and the device;
- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven or Vista or 8 or 10, make sure that you have the administrator privileges;
- Pay attention to Firewall lock.



Figure 13: "Protection" window

In the case of HD674-A031 you have to use the software "SW674-A031": www.adfweb.com/download/filefold/SW674-A031.zip.

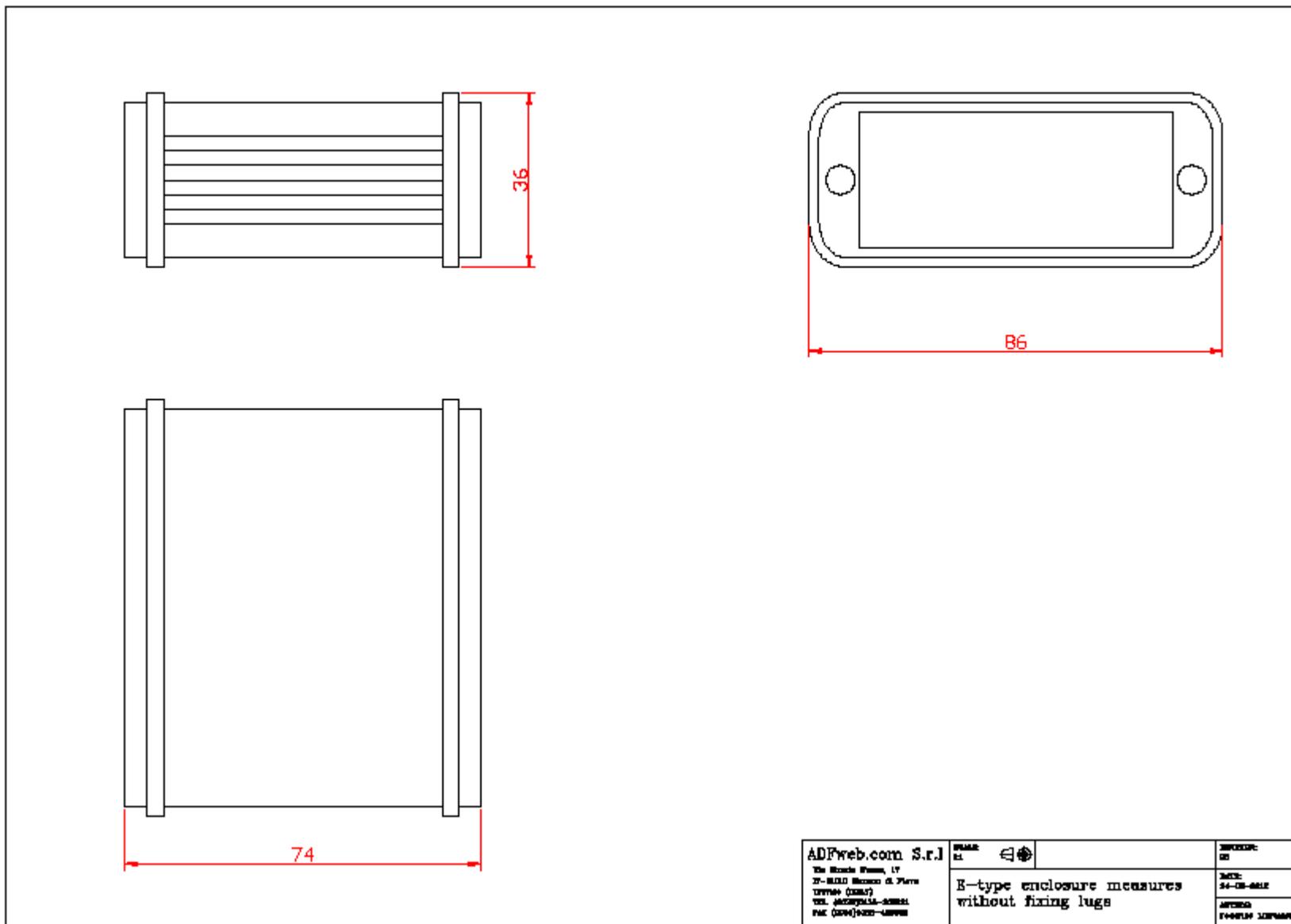
NMT REQUESTS:

To send a NMT request to a CANopen device, it is necessary to send a CAN frame to the Converter with the COB-ID equal to the "CAN frame for NMT" setted in the "Set Communication" section. The frame must have at least 2 data bytes. The first byte is used to decide the NMT Request to send and the second byte is used to indicate the CANopen ID device where to send the NMT request. The NMT Request that the gateway can send are (first byte of the CAN Frame):

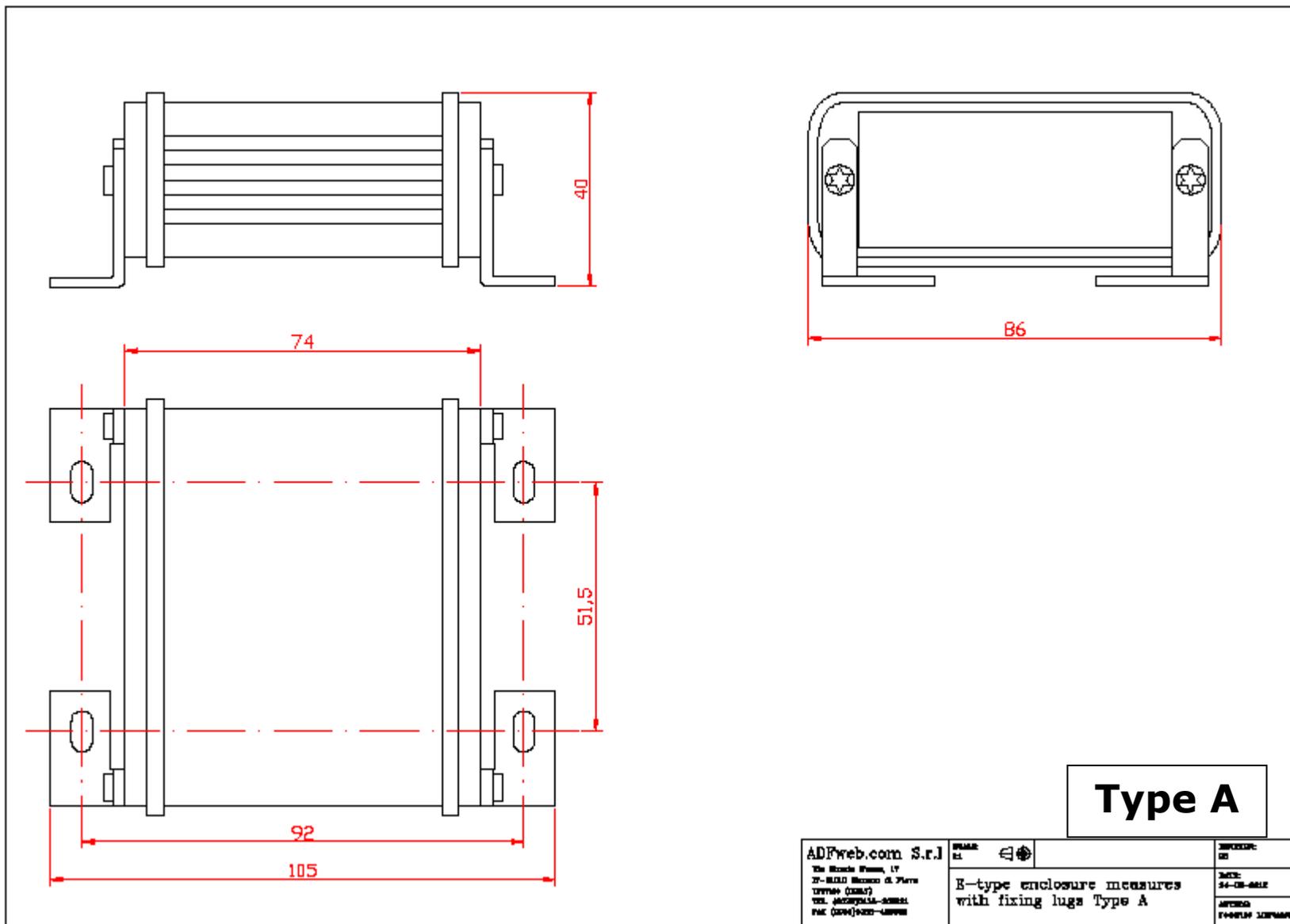
Value	Description
1	Start Remote Node (Operationa state)
2	Stop Remote Node
128	Pre-Operational Remote Node
129	Reset Remote Node
130	Reset Communication

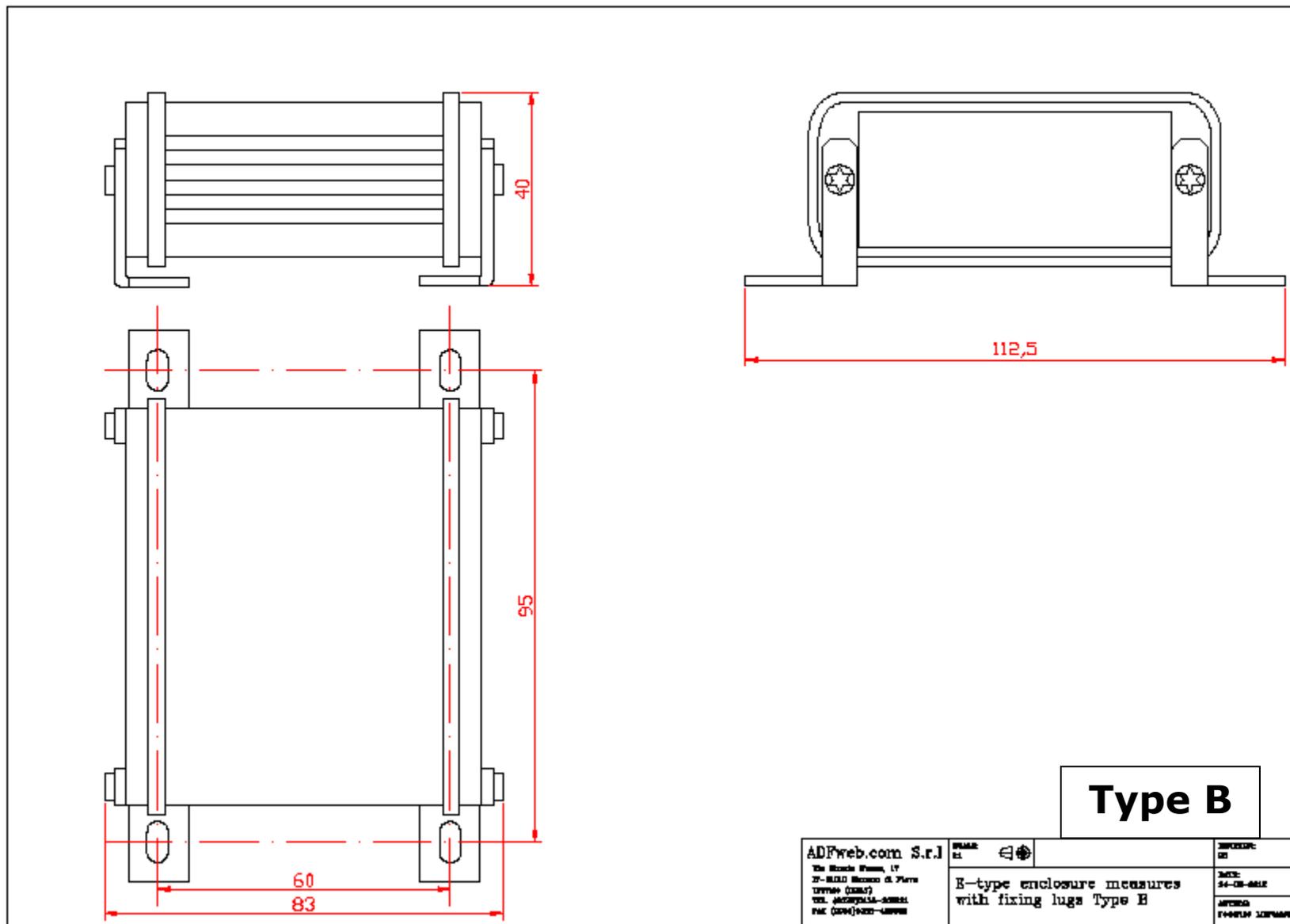
The CANopen ID Device (Second Byte of the CAN frame) can go from 1 to 127 for send a request to a single CANopen device or the value 0 to send a broadcast message.

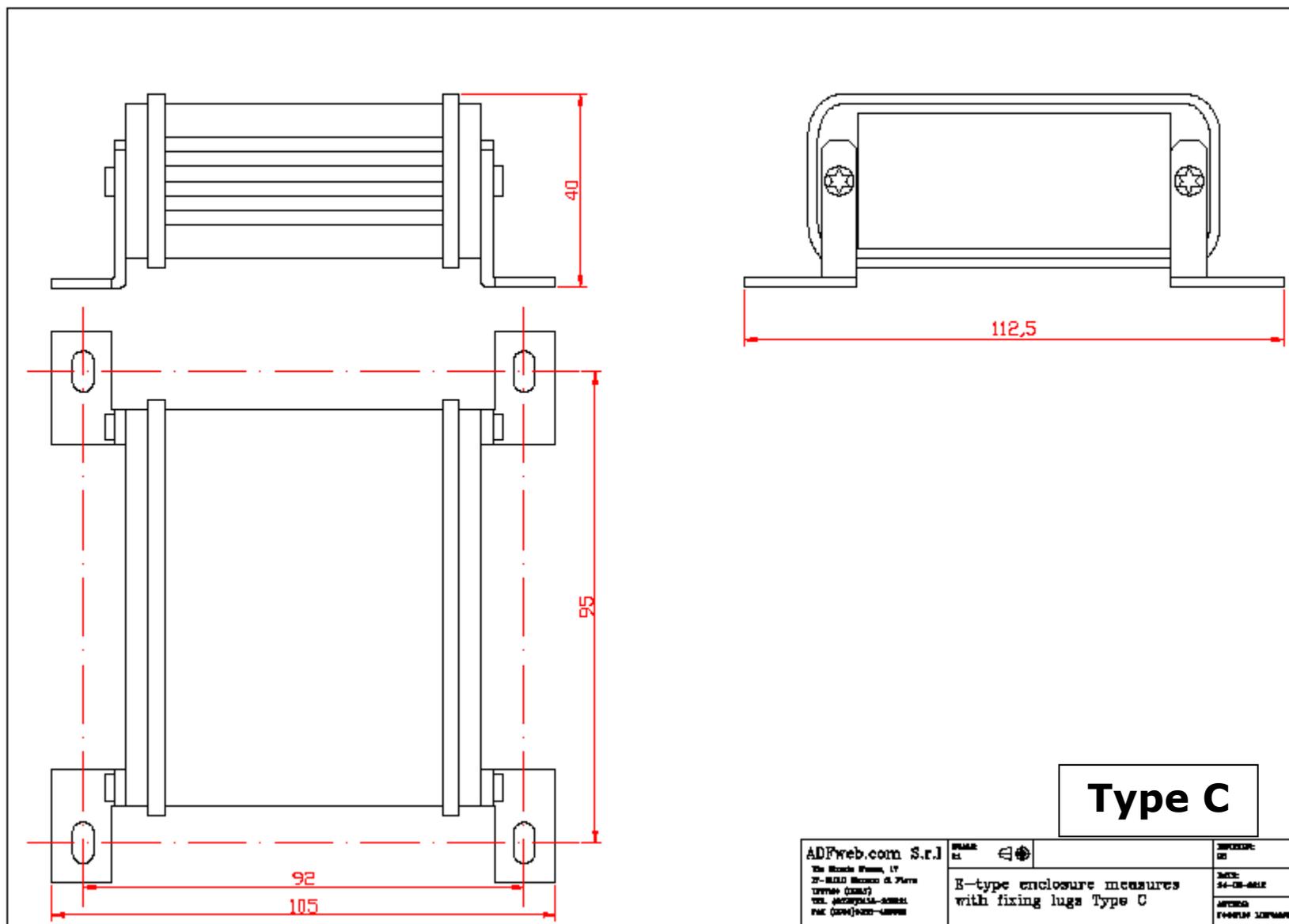
MECHANICAL DIMENSIONS:



<p>ADFweb.com S.r.l. Via Monte Rosso, 17 37-03010 Marenco di Piave TREVISO (TV3617) TEL. (0423)9151-50001 FAX (0423)9152-10000</p>	<p>IPNAME:  E-type enclosure measures without fixing lugs</p>	<p>INDICAZIONE: DE NOTE: S4-DB-081E AUTORE: F40810M 10/04/00</p>
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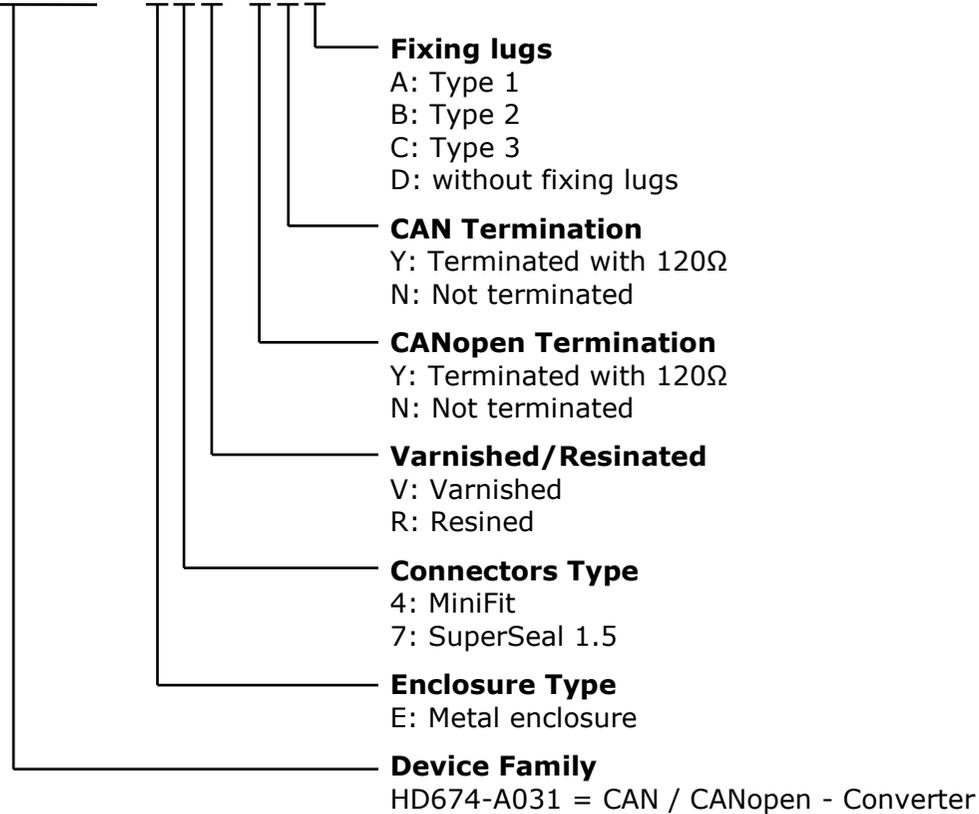




ORDERING INFORMATIONS:

The ordering part number is formed by a valid combination of the following:

HD674-A031 - E y z - s d f



ACCESSORIES:

- Order Code: **AC34001** - Rail DIN - Power Supply 220/240V AC 50/60Hz – 12 V AC
- Order Code: **AC34002** - Rail DIN - Power Supply 110V AC 50/60Hz – 12 V AC
- Order Code: **AC67402** - Cable Super Seal 1.5 MALE 2-pole - 1.0 Meter
- Order Code: **AC67402-3** - Cable Super Seal 1.5 MALE 2-pole - 3.0 Meters
- Order Code: **AC67403** - Cable Super Seal 1.5 MALE 3-pole - 1.0 Meter
- Order Code: **AC67403-3** - Cable Super Seal 1.5 MALE 3-pole - 3.0 Meters
- Order Code: **AC67410** - Accessory Automotive Devices - Support for rail DIN

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OTHER REGULATIONS AND STANDARDS:**WEEE INFORMATION**

Disposal of old electrical and electronic equipment (as in the European Union and other European countries with separate collection systems).

— This symbol on the product or on its packaging indicates that this product may not be treated as household rubbish. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. If the product is disposed correctly, you will help prevent potential negative environmental factors and impact of human health, which could otherwise be caused by inappropriate disposal. The recycling of materials will help to conserve natural resources. For more information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE

The device respects the 2002/95/EC Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (commonly referred to as Restriction of Hazardous Substances Directive or RoHS).

CE MARKING

The product conforms with the essential requirements of the applicable EC directives.

WARRANTIES AND TECHNICAL SUPPORT:

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at www.adfweb.com. Otherwise contact us at the address support@adfweb.com

RETURN POLICY:

If while using your product you have any problem and you wish to exchange or repair it, please do the following:

- Obtain a Product Return Number (PRN) from our internet support at www.adfweb.com. Together with the request, you need to provide detailed information about the problem.
- Send the product to the address provided with the PRN, having prepaid the shipping costs (shipment costs billed to us will not be accepted).

If the product is within the warranty of twelve months, it will be repaired or exchanged and returned within three weeks. If the product is no longer under warranty, you will receive a repair estimate.



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