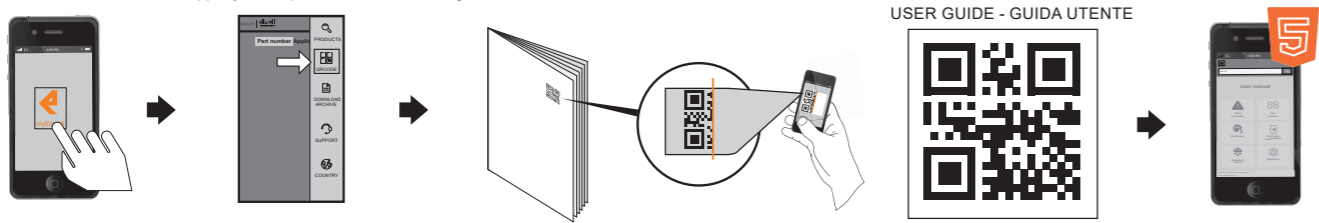




To access the User Guide, use the myEliwell app to scan the image below or search for it in "Services > Manuals"
 Per accedere alla Guida Utente, usare l'app myEliwell per scansionare l'immagine sotto o cercarlo in "Servizi > Manuali"




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USER INTERFACE - INTERFACCIA UTENTE



KEYS	TASTI
<p>Press and release</p> <ul style="list-style-type: none"> Scroll through the menu options Increase the values. <p>Press for at least 5 seconds</p> <ul style="list-style-type: none"> Activates manual defrost by default (H31=1) User configurable function (see H31) <p>Press and release</p> <ul style="list-style-type: none"> Activate AUX output by default (H35=2) User configurable function (see H35) <p>Press and release</p> <ul style="list-style-type: none"> Scroll through the menu options Decrease the values <p>Press for at least 5 seconds</p> <ul style="list-style-type: none"> Unlock the keypad if it is locked The function is disabled by default (H32=0) User configurable function (see H32) <p>Press and release</p> <ul style="list-style-type: none"> Go back (up one level) in the menu Confirm the parameter value <p>Press for at least 5 seconds</p> <ul style="list-style-type: none"> Activates stand-by function by default (H33=4) User configurable function (see H33) <p>Press and release</p> <ul style="list-style-type: none"> The function is disabled by default (H34=0) User configurable function (see H34) 	<p>Pressione breve</p> <ul style="list-style-type: none"> Scorre le voci dei menu Incrementa i valori <p>Pressione per almeno 5 secondi</p> <ul style="list-style-type: none"> Di default attiva lo sbrinatorio manuale (H31=1) Funzione configurabile dall'utente (vedere H31) <p>Pressione breve</p> <ul style="list-style-type: none"> Di default attiva l'uscita AUX (H35=2) Funzione configurabile dall'utente (vedere H35) <p>Pressione breve</p> <ul style="list-style-type: none"> Scorre le voci dei menu Decrementa i valori <p>Pressione per almeno 5 secondi</p> <ul style="list-style-type: none"> Sblocca la tastiera se è bloccata Di default la funzione è disabilitata (H32=0) Funzione configurabile dall'utente (vedere H32) <p>Pressione breve</p> <ul style="list-style-type: none"> Tornare al menu di livello superiore Confermare il valore del parametro <p>Pressione per almeno 5 secondi</p> <ul style="list-style-type: none"> Di default attiva la funzione stand-by (H33=4) Funzione configurabile dall'utente (vedere H33) <p>Pressione breve</p> <ul style="list-style-type: none"> Di default la funzione è disabilitata (H34=0) Funzione configurabile dall'utente (vedere H34)

<p>SET</p> <p>SET (ENTER)</p> <p>Press and release</p> <ul style="list-style-type: none"> Access the 'Machine Status' menu Display alarms (if present) Confirm commands. <p>Press for at least 3 seconds</p> <ul style="list-style-type: none"> Access the 'Programming' menu 	<p>SET (ENTER)</p> <p>Pressione breve</p> <ul style="list-style-type: none"> Accedere al menu "Stato macchina" Visualizzare eventuali allarmi (se presenti) Confermare i comandi <p>Pressione per almeno 3 secondi</p> <ul style="list-style-type: none"> Accedere al menu "Programmazione"
<p>Press both simultaneously for at least 5 seconds at device power-on to load the preset applications (only after unlocking the keypad).</p>	<p>Premuti per 5 secondi all'accensione, permettono di caricare le applicazioni predefinite. (solo dopo aver sbloccato la tastiera)</p>

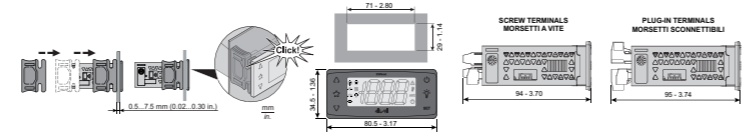
Note: At device power-on or after 30 seconds since last action on the user interface, the device keypad locks automatically. If it is locked and any key is pressed, the text 'LoC' will appear. To unlock the keypad, press and hold  key for at least 5 seconds until the text 'UnL' appears.

Nota: All'accensione o trascorsi 30 secondi dall'ultima azione sull'interfaccia utente, la tastiera del controllore si blocca automaticamente. Se è bloccata e viene premuto un tasto qualsiasi, apparirà la scritta "LoC". Per sbloccare la tastiera premere il tasto  per almeno 5 secondi finché non compare la scritta "UnL".

MECHANICAL INSTALLATION - MONTAGGIO MECCANICO

The instrument is designed to be panel mounted. Make a 71x29 mm (2.80x1.14 in.) hole and insert the instrument, fastening it with the provided brackets. Keep the area surrounding the instrument cooling slits well aerated. The panel thickness must be between 0.5 mm (0.02 in.) and 7.5 mm (0.30 in.).

Lo strumento è concepito per il montaggio a pannello. Praticare un foro da 71x29 mm (2,80x1,14 in.) e introdurre lo strumento fissandolo con le apposite staffe fornite. Fare in modo di lasciare aerata la zona in prossimità delle feritoie di raffreddamento dello strumento. Lo spessore del pannello deve essere compreso tra 0,5 mm (0,02 in.) e 7,5 mm (0,30 in.).



TECHNICAL DATA

The product complies with the following harmonized Standards: EN 60730-1 and EN 60730-2-9
 Construction of control: Electronic automatic Incorporated Control
 Purpose of control: Operating control (non-safety related)
 Type of action: 1.C
 Degree of protection by enclosure: IP00 rear side
 IP20 front panel only
 IP65 front panel only (with a steel sheet 2 mm (0.08 in.) thick ±10 % - Tested in accordance with EN 60529)
 Pollution degree: 2
 Overvoltage category: II
 Rated impulse voltage: 2500 V
 Ambient operating conditions: Temperature: -20...55 °C (-4...131 °F)
 Humidity: 10...90 %RH (non-condensing)
 Temperature: -30...85 °C (-22...185 °F)
 Humidity: 10...90 %RH (non-condensing)
 Transportation and storage conditions: 230 Vac or SMPS 100...240 Vac (±10 %) 50/60 Hz (depending on the model).
 Power supply: 5.5 W / 6.5 VA for 230 Vac models
 3.5 W / 8.5 VA for SMPS 100...240 Vac models
 Power draw (maximum):
 Software class: A
 Environmental front panel rating: Open type
 Equivalent RS485 bus load: 0.1 Unit Load
 Number of device on Field Bus (Maximum): 8
 Loads:

Model EWNNext 1281 SBCY (230 Vac)		
Relay	EU (230 Vac)	USA (230 Vac)
Out1	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistive - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out2	NO 8(4) A / NC 6(3) A / CO 6 A resistive	NO 8 A / NC 6 A / CO 6 A resistive - NO 3.6 FLA 21.6 LRA
Out3	4(2) A - 2 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistive - 3.6 FLA 21.6 LRA - 2 A (70 A inrush, 2.5 ms) ⁽²⁾
Out4	5(2) A - 1 A (25 A inrush, 2.5 ms) ⁽²⁾	5 A resistive - 2 FLA 12 LRA - 1 A (25 A inrush, 2.5 ms) ⁽²⁾
I_{max} = Maximum current on common (Out1+Out2+Out3). - V ⁺ : I _{max} = 17 A - S ^{**} : I _{max} = 12 A		
Model EWNNext 1385 SBCY (100...240 Vac)		
Relay	EU (100...240 Vac)	USA (100...240 Vac)
Out1	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistive - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out2	NO 8(4) A / NC 6(3) A / CO 6 A resistive	NO 8 A / NC 6 A / CO 6 A resistive - NO 3.6 FLA 21.6 LRA
Out3	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistive - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out4	5(2) A - 1 A (25 A inrush, 2.5 ms) ⁽²⁾	5 A resistive - 2 FLA 12 LRA - 1 A (25 A inrush, 2.5 ms) ⁽²⁾
I_{max} = Maximum current on common (Out1+Out2+Out3). - V ⁺ : I _{max} = 17 A - S ^{**} : I _{max} = 12 A		
Model EWNNext 1385 SBCIL (100...240 Vac)		
Relay	EU (100...240 Vac)	USA (100...240 Vac)
Out1	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistive - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out2	NO 8(4) A / NC 6(3) A / CO 6 A resistive	NO 8 A / NC 6 A / CO 6 A resistive - NO 3.6 FLA 21.6 LRA
Out3	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistive - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out4	5(2) A - 1 A (25 A inrush, 2.5 ms) ⁽²⁾	5 A resistive - 2 FLA 12 LRA - 1 A (25 A inrush, 2.5 ms) ⁽²⁾
I_{max} = Maximum current on common (Out1+Out2+Out3). - V ⁺ : I _{max} = 17 A - S ^{**} : I _{max} = 12 A		

(2) load expressed in compliance with Standard IEC/UL61810-1, Clause D.3 Special loads with inrush current.
 V⁺ = models with screw terminals - S^{**} = models with plug-in terminals

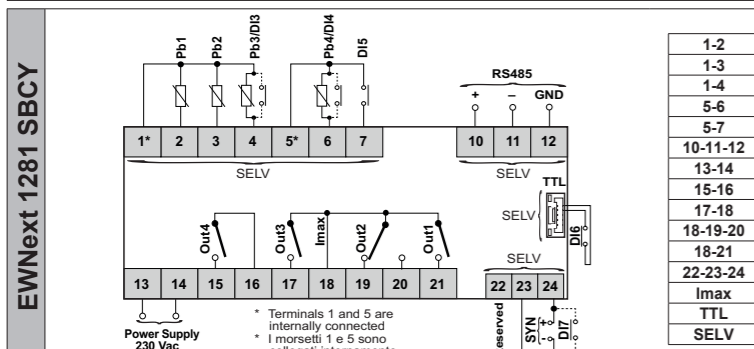
DATI TECNICI

Il prodotto risulta conforme alle seguenti Norme armonizzate: EN 60730-1 e EN 60730-2-9
 Costruzione del dispositivo: Dispositivo elettronico di comando incorporato
 Scopo del dispositivo: Dispositivo di comando di funzionamento (non di sicurezza)
 Tipo di azione: 1.C
 Grado di protezione fornito dall'involucro: IP00 parte posteriore
 IP20 solo frontale
 IP65 solo frontale (con una lamina d'acciaio di spessore 2 mm (0,08 in.) ±10 % - Testato secondo EN 60529)
 Grado di inquinamento: 2
 Categoria di sovratensione: II
 Tensione impulsiva nominale: 2500 V
 Condizioni operative ambientali: Temperatura: -20...55 °C (-4...131 °F)
 Umidità: 10...90 %RH (non condensante)
 Temperatura: -30...85 °C (-22...185 °F)
 Umidità: 10...90 %RH (non condensante)
 Condizioni di trasporto e immagazzinamento: 230 Vac o SMPS 100...240 Vac (±10 %) 50/60 Hz (a seconda del modello).
 Alimentazione: 5,5 W / 6,5 VA per modelli 230 Vac
 3,5 W / 8,5 VA per modelli SMPS 100...240 Vac
 Consumo (massimo):
 Classe del software: A
 Classificazione ambientale pannello frontale: Open type
 Carico equivalente sul bus RS485: 0,1 Unit Load
 Numero di strumenti sul Field Bus (Massimo): 8
 Carichi:

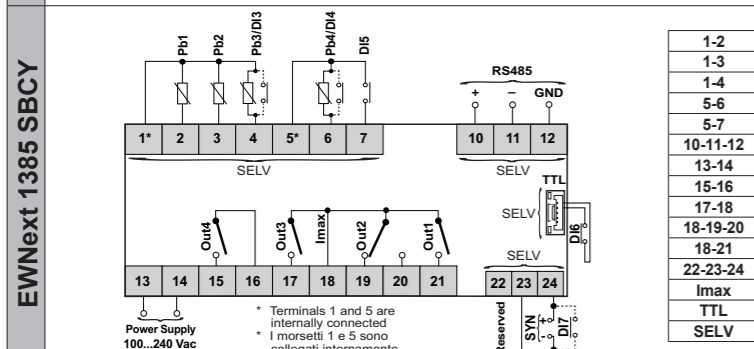
Modello EWNNext 1281 SBCY (230 Vac)		
Relè	EU (230 Vac)	USA (230 Vac)
Out1	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistivi - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out2	NO 8(4) A / NC 6(3) A / CO 6 A resistivi	NO 8 A / NC 6 A / CO 6 A resistivi - NO 3.6 FLA 21.6 LRA
Out3	4(2) A - 2 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistivi - 3.6 FLA 21.6 LRA - 2 A (70 A inrush, 2.5 ms) ⁽²⁾
Out4	5(2) A - 1 A (25 A inrush, 2.5 ms) ⁽²⁾	5 A resistivi - 2 FLA 12 LRA - 1 A (25 A inrush, 2.5 ms) ⁽²⁾
I_{max} = Corrente massima sul comune (Out1+Out2+Out3). - V ⁺ : I _{max} = 17 A - S ^{**} : I _{max} = 12 A		
Modello EWNNext 1385 SBCY (100...240 Vac)		
Relay	EU (100...240 Vac)	USA (100...240 Vac)
Out1	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistivi - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out2	NO 8(4) A / NC 6(3) A / CO 6 A resistivi	NO 8 A / NC 6 A / CO 6 A resistivi - NO 3.6 FLA 21.6 LRA
Out3	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistivi - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out4	5(2) A - 1 A (25 A inrush, 2.5 ms) ⁽²⁾	5 A resistivi - 2 FLA 12 LRA - 1 A (25 A inrush, 2.5 ms) ⁽²⁾
I_{max} = Corrente massima sul comune (Out1+Out2+Out3). - V ⁺ : I _{max} = 17 A - S ^{**} : I _{max} = 12 A		
Modello EWNNext 1385 SBCIL (100...240 Vac)		
Relè	EU (100...240 Vac)	USA (100...240 Vac)
Out1	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistivi - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out2	NO 8(4) A / NC 6(3) A / CO 6 A resistivi	NO 8 A / NC 6 A / CO 6 A resistivi - NO 3.6 FLA 21.6 LRA
Out3	10(6) A - 5 A (70 A inrush, 2.5 ms) ⁽²⁾	10 A resistivi - 10 FLA 60 LRA - 5 A (70 A inrush, 2.5 ms) ⁽²⁾
Out4	5(2) A - 1 A (25 A inrush, 2.5 ms) ⁽²⁾	5 A resistivi - 2 FLA 12 LRA - 1 A (25 A inrush, 2.5 ms) ⁽²⁾
I_{max} = Corrente massima sul comune (Out1+Out2+Out3). - V ⁺ : I _{max} = 17 A - S ^{**} : I _{max} = 12 A		

(2) carico espresso in accordo alla norma IEC/UL61810-1, Clause D.3 Special loads with inrush current.
 V⁺ = modelli con morsetti a vite - S^{**} = modelli con morsetti sconnettibili

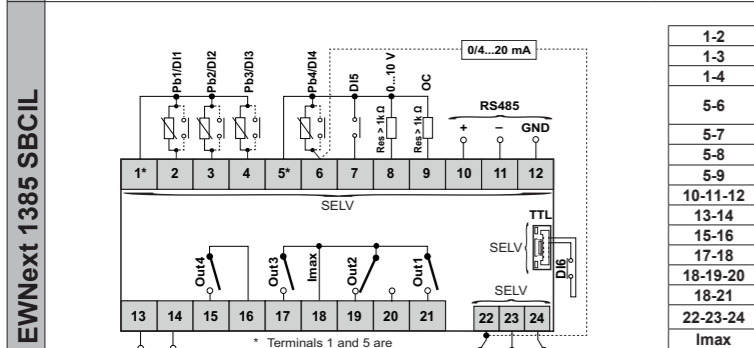
WIRING DIAGRAMS - SCHEMI DI CABLAGGIO



TERMINALS	MORSETTI
1-2 Probe Pb1	Sonda Pb1
1-3 Probe Pb2	Sonda Pb2
1-4 Probe Pb3 (H13=0 and P03=DIG) or Digital input DI3 (H13≠0 and P03=DIG)	Sonda Pb3 (H13=0 e P03=DIG) o Ingresso digitale DI3 (H13≠0 e P03=DIG)
5-6 Probe Pb4 (H14=0 and P04=DIG) or Digital input DI4 (H14≠0 and P04=DIG)	Sonda Pb4 (H14=0 e P04=DIG) o Ingresso digitale DI4 (H14≠0 e P04=DIG)
5-7 Digital input DI5	Ingresso Digitale DI5
10-11-12 RS485. Supervision Gateway Connection (NOT ISOLATED)	RS485. Connessione Gateway di supervisione (NON ISOLATA)
13-14 Power supply input: 230 Vac	Ingresso alimentazione: 230 Vac
15-16 SPST relay Out4 (Default: Evaporator fans)	Relè SPST Out4 (Default: Ventole evaporatore)
17-18 SPST relay Out3 (Default: AUX)	Relè SPST Out3 (Default: AUX)
18-19-20 SPDT relay Out2 (Default: Defrost 1)	Relè SPDT Out2 (Default: Sbrinatorio 1)
18-21 SPST relay Out1 (Default: Compressor 1)	Relè SPST Out1 (Default: Compressore 1)
22-23-24 22 = Reserved (do not use); 23-24 = Input for defrost synchronization SYN or Digital input DI7	22 = Riservato (non usare); 23-24 = Ingresso per sincronizzazione sbrinatori SYN o Ingresso digitale DI7
I _{max} Maximum current on common: screw terminals = 17 A; plug-in terminals = 12 A	Corrente massima sul comune: morsetti a vite = 17 A; morsetti sconnettibili = 12 A
TTL TTL serial port or digital input DI6	Porta seriale TTL o ingresso digitale DI6
SELV SELV connections	Connessioni SELV



TERMINALS	MORSETTI
1-2 Probe Pb1	Sonda Pb1
1-3 Probe Pb2	Sonda Pb2
1-4 Probe Pb3 (H13=0 and P03=DIG) or Digital input DI3 (H13≠0 and P03=DIG)	Sonda Pb3 (H13=0 e P03=DIG) o Ingresso digitale DI3 (H13≠0 e P03=DIG)
5-6 Probe Pb4 (H14=0 and P04=DIG) or Digital input DI4 (H14≠0 and P04=DIG)	Sonda Pb4 (H14=0 e P04=DIG) o Ingresso digitale DI4 (H14≠0 e P04=DIG)
5-7 Digital input DI5	Ingresso Digitale DI5
10-11-12 RS485. Supervision Gateway Connection (NOT ISOLATED)	RS485. Connessione Gateway di supervisione (NON ISOLATA)
13-14 Power supply input: SMPS 100...240 Vac	Ingresso alimentazione: SMPS 100...240 Vac
15-16 SPST relay Out4 (Default: Evaporator fans)	Relè SPST Out4 (Default: Ventole evaporatore)
17-18 SPST relay Out3 (Default: AUX)	Relè SPST Out3 (Default: AUX)
18-19-20 SPDT relay Out2 (Default: Defrost 1)	Relè SPDT Out2 (Default: Sbrinatorio 1)
18-21 SPST relay Out1 (Default: Compressor 1)	Relè SPST Out1 (Default: Compressore 1)
22-23-24 22 = Reserved (do not use); 23-24 = Input for defrost synchronization SYN or Digital input DI7	22 = Riservato (non usare); 23-24 = Ingresso per sincronizzazione sbrinatori SYN o Ingresso digitale DI7
I _{max} Maximum current on common: screw terminals = 17 A; plug-in terminals = 12 A	Corrente massima sul comune: morsetti a vite = 17 A; morsetti sconnettibili = 12 A
TTL TTL serial port or digital input DI6	Porta seriale TTL o ingresso digitale DI6
SELV SELV connections	Connessioni SELV



TERMINALS	MORSETTI
1-2 Probe Pb1 (H11=0 and P01≠DIG) or Digital input DI1 (H11≠0 and P01=DIG)	Sonda Pb1 (H11=0 e P01≠DIG) o Ingresso digitale DI1 (H11≠0 e P01=DIG)
1-3 Probe Pb2 (H12=0 and P02≠DIG) or Digital input DI2 (H12≠0 and P02=DIG)	Sonda Pb2 (H12=0 e P02≠DIG) o Ingresso digitale DI2 (H12≠0 e P02=DIG)
1-4 Probe Pb3 (H13=0 and P03≠DIG) or Digital input DI3 (H13≠0 and P03=DIG)	Sonda Pb3 (H13=0 e P03≠DIG) o Ingresso digitale DI3 (H13≠0 e P03=DIG)
5-6 Probe Pb4 (H14=0 and P04≠DIG/420/020) or Digital input DI4 (H14≠0 and P04=DIG) or input 0...20 mA/4...20 mA (H14=0 and P04=420/020)	Sonda Pb4 (H14=0 e P04≠DIG/420/020) o Ingresso digitale DI4 (H14≠0 e P04=DIG) o ingresso 0...20 mA/4...20 mA (H14=0 e P04=420/020)
5-7 Digital input DI5	Ingresso Digitale DI5
5-8 Output 0...10 V - Load impedance ≥ 1 kΩ (01n≠0)	Uscita 0...10 V - Impedenza di carico ≥ 1 kΩ (01n≠0)
5-9 Open Collector Output (OC): 12 Vdc ±5 % - Load impedance ≥ 1 kΩ (02n≠0)	Uscita Open Collector (OC): 12 Vdc ±5 % - Impedenza di carico ≥ 1 kΩ (02n≠0)
10-11-12 RS485. Supervision Gateway Connection (NOT ISOLATED)	RS485. Connessione Gateway di supervisione (NON ISOLATA)
13-14 Power supply input: SMPS 100...240 Vac	Ingresso alimentazione: SMPS 100...240 Vac
15-16 SPST relay Out4 (Default: Evaporator fans)	Relè SPST Out4 (Default: Ventole evaporatore)
17-18 SPST relay Out3 (Default: AUX)	Relè SPST Out3 (Default: AUX)
18-19-20 SPDT relay Out2 (Default: Defrost 1)	Relè SPDT Out2 (Default: Sbrinatorio 1)
18-21 SPST relay Out1 (Default: Compressor 1)	Relè SPST Out1 (Default: Compressore 1)
22-23-24 Field Bus (22 = +12 V ⁽¹⁾ , 23 = GND, 24 = SIG) - Only for EWNNext 1385 SBCIL models interconnection.	Field Bus (22 = 12 V ⁽¹⁾ , 23 = GND, 24 = SIG) - Solo per l'interconnessione di modelli EWNNext 1385 SBCIL
I _{max} Maximum current on common: screw terminals = 17 A; plug-in terminals = 12 A	Corrente massima sul comune: morsetti a vite = 17 A; morsetti sconnettibili = 12 A
TTL TTL serial port or digital input DI6	Porta seriale TTL o ingresso digitale DI6
SELV SELV connections	Connessioni SELV

(1) Maximum current available on +12 V connection for 0...20 mA/4...20 mA external transducer could be up to 20 mA (maximum one transducer).

(1) Corrente massima disponibile sulla connessione +12 V per trasduttori esterni 0...20 mA/4...20 mA può arrivare fino a 20 mA (massimo un trasduttore).

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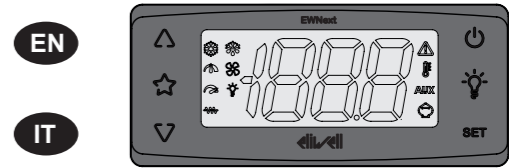
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MADE IN ITALY

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EWNNext 1000 -HC



ELECTRICAL CONNECTIONS

⚠ ⚠ DANGER**HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or installing or removing any accessories, hardware, cables or wires except under the specific conditions specified in the user guide for this equipment.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Before restoring the power supply, replace and secure all covers, hardware components and cables.
- Use only the specified voltage when operating this equipment and any associated products.
- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Install and use this equipment in an enclosure appropriately rated for its intended environment.
- Do not use this equipment for safety-critical functions.
- Do not disassemble, repair, or modify this equipment.
- Do not connect wires to unused terminals and/or terminals indicated as "Reserved".

Failure to follow these instructions will result in death or serious injury.

⚠ ⚠ DANGER**HAZARD OF ELECTRIC SHOCK, FIRE AND/OR UNINTENDED EQUIPMENT OPERATION**

- Do not expose the equipment to liquids.
- Do not exceed the temperature and humidity ranges specified in the technical data and keep the area surrounding the cooling slits aerated.
- Do not apply dangerous voltages to the SELV connection terminals (see "Wiring diagram" section).
- Only connect compatible accessories - as specified in the user guide - to the device.
- Only use cables with a suitable cross-section (see "Wiring guidelines" section).
- Only use the specified plug-in terminals (see "Best wiring practices" in the user guide).
- All network components (controllers, sensors and actuators) must be powered by separate SELV power supplies/transformers except under the specific conditions specified in the user guide for this equipment.
- No network component (controllers, sensors and actuators) can be earthed.

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING**HAZARD OF EXPLOSION, OVERHEATING AND/OR FIRE**

Do not set any parameter not having the full understanding of its behavior in general and in relation to the specific application.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING**HAZARD OF OVERHEATING AND/OR FIRE**

- Do not use with loads other than those indicated in the technical data.
- Do not exceed the maximum permitted current; in the case of higher loads, use a contactor with suitable power.
- For non-inrush outputs, make sure the application has not been designed with the instrument outputs connected directly to instruments that generate a frequently activated capacitive load ⁽¹⁾.
- For inrush outputs, make sure that no loads exceeding the ratings specified in the technical data are connected ⁽²⁾.
- Power lines and output connections must be suitably wired and protected by means of fuses when required by national and local regulations.
- Connect the relay outputs, including the shared pole, using cables with a cross-section of 2.5 mm² and a length of at least 200 mm (7.87 in.).

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⁽¹⁾ Even if your application not apply a frequently operated capacitive load on the relay, capacitive loads will reduce the life of any electromechanical relay, and installation of a contactor or an external relay, that is sized and maintained according the ratings and characteristics of the capacitive load, will help minimize the consequence of relay degradation.

⁽²⁾ Although the highest performance relays have been selected for the inrush outputs and loads are declared in accordance with standard IEC 61810-1 D.3, it is end user responsibility that instrument outputs guarantee the proper operation of the application in relation to the expected lifecycle of the machine.

NOTICE**REDUCTION OF RELAY ENDURANCE**

- Do not enable zero crossing to control inductive loads such as contactors and iron-core transformers.
- Use same mains phase to supply both load and controller.

Failure to follow these instructions can result in equipment damage.

NOTICE**UNINTENDED EQUIPMENT OPERATION**

- The load equivalent to all the bus RS485 bus should not exceed 8 Unit Load (For the definition of Unit Load refer to standard TIA/EIA-485-A).
- Do not fit the termination resistors inside the RS485 network.
- For the connection with the supervision system, use a shielded "twisted pair" cable specific (for example: BELDEN cable model 8762).
- The length of an RS485 network is directly related to the baud rate used. At a baud rate of 9600 baud, the maximum cable length is approximately 800 mt (2,625 ft). At 19200 baud, the maximum length is reduced to approximately 400 mt (1,312 ft).

Failure to follow these instructions can result in equipment damage.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.

No responsibility is assumed by Schneider Electric and Eliwell for any consequences arising out of the use of this material.

FLAMMABLE REFRIGERANT GASES

For use with flammable gases:

- This device has been evaluated in accordance with chapter 22.112 of the IEC 60335-2-89 standard with reference to annex BB prescription 9 (sealed relays).
- This device has been evaluated with a surface temperature not exceeding 200 °C (392 °F), as per prescription 22.114 of the IEC 60335-2-89 standard, according to the criteria of chapter 11 (normal operation).

The use and application of the information contained herein require expertise in the design and parameterizing/programming of refrigeration control systems. Only you - the original equipment manufacturer, installer or user - can be aware of all the conditions and factors present, and the regulations applicable, during the design, installation and setup, operation, and maintenance of the machine or related processes.

Therefore, only you can determine the suitability of automation and associated equipment, and the related safeties and interlocks, which can be effectively and properly used in the locations for which the equipment is to be put into service. When selecting automation and control equipment, and any other related equipment or software for an application, you must also consider any applicable local, regional or national standards and/or regulations.

You must verify, while incorporating this controller and related equipment, the final compliance of the machine to regulations and standards when using flammable gas refrigerants. Although all statements and information contained herein are believed to be accurate and reliable, they are presented without warranty of any kind. Information provided herein does not relieve you from the responsibility of carrying out your own tests and validations of conformance to any applicable regulations.

⚠ WARNING**REGULATORY INCOMPATIBILITY**

Be sure that all used equipments and designed systems comply with all applicable local, regional and national regulations and standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

WIRING GUIDELINES

⚠ ⚠ DANGER**LOOSE WIRING CAN RESULT IN ELECTRIC SHOCK AND/OR FIRE**

Tighten the connections in compliance with the technical specifications for torque values and make sure the wiring is correct.

Failure to follow these instructions will result in death or serious injury.

NOTICE**UNINTENDED EQUIPMENT OPERATION**

SELV wiring must be kept separate from other wiring (see "Wiring diagram" section).

Failure to follow these instructions can result in equipment damage.






NOTICE**INOPERABLE DEVICE**

- For the connection of probes and the digital inputs, use cables shorter than 10 m (32.80 ft).
- For TTL serial line connection, use cables shorter than 1 m (3.28 ft).













Failure to follow these instructions can result in equipment damage.

Use copper wires (mandatory).













The table below shows the type and size of permitted cables for screw terminals and the torque value.

					Nm 0.5 lb-in 4.5
mm ²	0.2...4.0	0.2...2.5			
AWG	30...12	30...12			

The table below shows the type and size of permitted cables for plug-in terminals pitch 5.0 mm (0.197 in.) and the torque values.


												Nm 0.5 lb-in 4.5
mm ²	0.2...2.5	0.2...2.5	0.25...2.5	0.25...2.5	2 x 0.2...1.0	2 x 0.2...1.5	2 x 0.25...0.75	2 x 0.5...1.5				
AWG	24...12	24...12	--	--	--	--	--	--	--	--	--	

The table below shows the type and size of permitted cables for plug-in terminals pitch 3.5 mm (0.138 in.) and the torque values.

												Nm 0.22...0.25 lb-in 1.95...2.27
mm ²	0.14...1.5	0.14...1.5	0.25...1.5	0.25...0.5	2x 0.08...0.5	2x 0.08...0.75	2x 0.25...0.34	2x 0.5				
AWG	26...16	26...16	22...16	22...20	2x 28...20	2x 28...20	2x 24...22	2x 20				

Only use the plug-in terminals supplied with the product (only with specific models) or purchased directly from Eliwell; otherwise, be sure you are using terminals that are suitable for operation with the Eliwell controller in the conditions specific to its application.

⚠ WARNING: This product can expose you to chemicals including, lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.



Scan this image to access the "Schneider Electric Cybersecurity support" portal (English document):
<https://www.se.com/ww/en/work/support/cybersecurity/security-notifications.jsp>

LIABILITY AND RESIDUAL RISKS

The liability of Schneider Electric and Eliwell is limited to the correct and professional use of the product according to the directives referred to herein and in the other supporting documents, and does not cover any damage (including but not limited to) the following causes:

- installation/use other than what is intended and, in particular, in deviation from the safety regulations set forth by the standards and/or included in this document;
- use on panels that do not guarantee suitable protection against electrical shock, water and dust in the assembly conditions;
- use on panels which allow access to dangerous parts without the aid of a keyed or tooled locking mechanism;
- product tampering and/or alteration;
- installation/use on panels that do not comply with the regulations in force in the country of installation.

DISCLAIMER

This document is the exclusive property of Eliwell and cannot be reproduced or circulated unless expressly authorised by Eliwell. All possible care has been taken to ensure the accuracy of this document; nevertheless, Eliwell cannot accept liability for any damage resulting from its use. The same applies to any person or company involved in preparing and editing this document. Eliwell reserves the right to make aesthetic or functional changes at any time without notice.


CONDITIONS OF USE**Permitted use**

The instrument must be installed and used in accordance with the provided instructions and in particular, in normal conditions, dangerous energized parts must not be accessible. The instrument must be suitably protected against water and dust based on its application and must also be accessible only with the use of a keyed or tooled locking mechanism (with the exception of the front panel). The device is suitable for integration into equipment for domestic use and/or similar for refrigeration purposes and has been checked on the basis of the harmonized European standards of reference.



Prohibited use

Any use other than what is permitted is in fact prohibited. Please note that the relay contacts provided are a functional type and are subject to faults: any protective devices indicated by product regulations or suggested as a result of common sense with regard to obvious safety needs must be implemented outside of the device.

DISPOSAL

 The device (or product) must be subjected to separate waste collection in compliance with the local legislation on waste disposal.

Scan this code to access the instruction sheet in all available languages.

9IS24925

Procedure: <ol style="list-style-type: none"> download a QR reader from <ul style="list-style-type: none"> Google Play (Android) App Store (Apple) scan the code in the image download the document 	Manual procedure: <ol style="list-style-type: none"> access to Eliwell website (www.eliwell.com) click on search icon (🔍) and insert the document product or code select the tab "documentation" click on the document name (a new windows will open) read the document on browser or download the pdf file in local
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⚠ AVVERTIMENTO**INCOMPATIBILITÀ NORMATIVA**

Assicurarsi che tutte le apparecchiature impiegate e i sistemi progettati siano conformi a tutti i regolamenti e alle norme locali, regionali e nazionali applicabili.

Il mancato rispetto di queste istruzioni può provocare morte, gravi infortuni o danni alle apparecchiature.

LINEE GUIDA PER IL CABLAGGIO

⚠ ⚠ PERICOLO**UN CABLAGGIO ALLENATATO PROVOCA SHOCK ELETTRICO E/O INCENDIO**

Serrare le connessioni in conformità con le specifiche tecniche relative alle coppie di serraggio e verificarne il corretto cablaggio.

Il mancato rispetto di queste istruzioni provocherà morte o gravi infortuni.

AVVISO**FUNZIONAMENTO ANOMALO DELL'APPARECCHIATURA**

I cablaggi SELV devono essere tenuti separati dagli altri cablaggi (vedere sezione "Schemi di cablaggio").

Il mancato rispetto di queste istruzioni può provocare danni alle apparecchiature.






AVVISO**APPARECCHIATURA NON FUNZIONANTE**

- Per il collegamento delle sonde e degli ingressi digitali usare cavi di lunghezza inferiore a 10 m (32,80 ft).
- Per il collegamento della linea seriale TTL usare cavi di lunghezza inferiore a 1 m (3,28 ft).








Il mancato rispetto di queste istruzioni può provocare danni alle apparecchiature.

Usare conduttori in rame (obbligatorio).








La tabella seguente riporta tipo e dimensione dei cavi ammissibili per i morsetti a vite e le coppie di serraggio.

					Nm 0.5 lb-in 4.5
mm ²	0.2...4.0	0.2...2.5			
AWG	30...12	30...12			

La tabella seguente riporta tipo e dimensione dei cavi ammissibili per i morsetti sconnettibili passo 5,0 mm (0,197 in.) e le coppie di serraggio.


												Nm 0.5 lb-in 4.5
mm ²	0.2...2.5	0.2...2.5	0.25...2.5	0.25...2.5	2 x 0.2...1.0	2 x 0.2...1.5	2 x 0.25...0.75	2 x 0.5...1.5				
AWG	24...12	24...12	--	--	--	--	--	--	--	--	--	

La tabella seguente riporta tipo e dimensione dei cavi ammissibili per i morsetti sconnettibili passo 3,5 mm (0,138 in.) e le coppie di serraggio.

												Nm 0.22...0.25 lb-in 1.95...2.27
mm ²	0.14...1.5	0.14...1.5	0.25...1.5	0.25...0.5	2x 0.08...0.5	2x 0.08...0.75	2x 0.25...0.34	2x 0.5				
AWG	26...16	26...16	22...16	22...20	2x 28...20	2x 28...20	2x 24...22	2x 20				

Utilizzare solo i morsetti sconnettibili forniti in dotazione (solo con specifici modelli) o acquistati direttamente da Eliwell; in caso contrario, assicurarsi di utilizzare morsetti idonei a funzionare congiuntamente al controllore Eliwell nelle condizioni della specifica applicazione.

⚠ AVVERTIMENTO: Questo prodotto può esporre l'utente a sostanze chimiche, tra cui piombo e composti di piombo, noti allo Stato della California per causare il cancro e per causare difetti alla nascita o altri danni riproduttivi. Per ulteriori informazioni visita il sito: www.P65Warnings.ca.gov.



Scansiona l'immagine per accedere al portale "Schneider Electric Cybersecurity support" (in inglese):
<https://www.se.com/ww/en/work/support/cybersecurity/security-notifications.jsp>

RESPONSABILITÀ E RISCHI RESIDUI

La responsabilità di Schneider Electric e Eliwell è limitata all'uso corretto e professionale del prodotto secondo le direttive contenute nel presente e negli altri documenti di supporto, e non è estesa a eventuali danni causati da quanto segue (in via esemplificativa ma non esaustiva):

- installazione/uso diversi da quelli previsti e, in particolare, difformi dalle prescrizioni di sicurezza previste dalle normative e/o date con il presente;
- uso su quadri che non garantiscono adeguata protezione contro la scossa elettrica, l'acqua e la polvere nelle condizioni di montaggio realizzate;
- uso su quadri che permettono l'accesso a parti pericolose senza l'uso di un meccanismo di bloccaggio a chiave o di utensili per accedere allo strumento;
- manomissione e/o alterazione del prodotto;
- installazione/uso in quadri non conformi alle normative vigenti nel paese di installazione del prodotto.

DECLINAZIONE DI RESPONSABILITÀ

La presente pubblicazione è di esclusiva proprietà di Eliwell la quale pone il divieto assoluto di riproduzione e divulgazione se non espressamente autorizzata da Eliwell stessa. Ogni cura è stata posta nella realizzazione di questo documento; tuttavia Eliwell non può assumersi alcuna responsabilità derivante dall'utilizzo della stessa. Lo stesso dicasi per ogni persona o società coinvolta nella creazione e stesura di questo manuale. Eliwell si riserva il diritto di apportare qualsiasi modifica, estetico o funzionale, senza preavviso alcuno ed in qualsiasi momento.


CONDIZIONI D'USO**Usò consentito**

Lo strumento dovrà essere installato e usato secondo le istruzioni fornite ed in particolare, in condizioni normali, non dovranno essere accessibili parti a tensione pericolosa. Lo strumento dovrà essere adeguatamente protetto dall'acqua e dalla polvere in ordine all'applicazione e dovrà altresì essere accessibile solo con l'uso di un meccanismo di bloccaggio a chiave o di utensili (ad eccezione del frontale). Lo strumento è idoneo ad essere incorporato in un apparecchio per uso domestico e/o similare nell'ambito della refrigerazione ed è stato verificato sulla base delle norme armonizzate europee di riferimento.



Usò non consentito

Qualsiasi uso diverso da quello consentito è di fatto vietato. Si fa presente che i contatti relè forniti sono di tipo funzionale e sono soggetti a guasto: eventuali dispositivi di protezione previsti dalla normativa di prodotto o suggeriti dal buon senso in ordine a palesi esigenze di sicurezza devono essere realizzati al di fuori dello strumento.

SMALTIMENTO

 L'apparecchiatura (o il prodotto) deve essere oggetto di raccolta separata in conformità alle vigenti normative locali in materia di smaltimento.

Scansiona questo codice per accedere al foglio tecnico in tutte le lingue disponibili.

9IS24925

Procedure: <ol style="list-style-type: none"> scaricare un lettore di codici QR da <ul style="list-style-type: none">
