



Hour without preselection - LCD 24 x 48 - CTR24 CTR24 non-backlit model Part number 87622170



- Display : 8-digit LCD, height 8 mm
- Built-in module for voltage inputs 10 →260 VAC/DC (2224-2324)
- 4 timing ranges : 99,999.99 hrs - 99,999.59 hrs - 999,999.9 s - 9,999 hrs 59 min 59 s
- Powered by a lithium battery, service life 8 years
- Reset on panel or external with inhibition option
- Backlit model (2323-2333-2324)
- Accessories for 50 x 25 mm cut-out

	Type	Type	Functions
87622161	CTR24 non-backlit model	2223	Hour counter, solid state input PNP
87622162	CTR24 non-backlit model	2233	Hour counter, solid state input NPN
87622170	CTR24 non-backlit model	2224	Hour counter, voltage input
87622181	CTR24 model with orange backlighting	2323	Hour counter, solid state input PNP
87622182	CTR24 model with orange backlighting	2333	Hour counter, solid state input NPN
87622190	CTR24 model with orange backlighting	2324	Hour counter, voltage input

Physical details and protection

Consumption	Backlighting : 24 VDC± 20 % 50 mA
Connection by 8 screw terminals at rear of casing	■
Connection capacity	1,5 mm ²
Fixed using bracket	■
Degree of protection front face	IP 65
Temperature limits use (°C)	-10 →+60
Temperature limits stored (°C)	-20 →+70
Breakdown voltage	EN 610110-1 : 2000 V / 50 Hz / 1 min.
Conformity to standards	EN 61000-6-2 - EN 55011 class B
Altitude	2000 m
Certifications	UL - cULus (pending) - CE
Weight (g)	50

Operating characteristics

Function	Hour counter
Display	8-digit LCD
Height digits (mm)	8
Time ranges	0 →99 999.99 h 0 →99 999.59 h 0 →9 999 999.9 s 0 →9 999 h 59 min 59 s
Time base : Crystal controlled (Accuracy ± 100)	■

Input 2223-2323

Start/stop input	by PNP or dry contact (terminals 2-6)
Low level	0 →0,7 VDC
High level	4 →30 VDC PNP
Min time closed	> 100 ms
Input impedance	100 kΩ PNP

Input 2233-2333

Start/stop input	by PNP or dry contact (terminals 2-6)
Low level	0 →0,7 VDC
High level	3 →30 VDC
Minimum time closed	> 100 ms
Input impedance	1 MΩ

Reset to zero - External 2223-2323 & 2233-2333

Volt-free contact or open collector (terminals 3-6)	■
Minimum time closed	50 ms

Input 2224-2324

One start/stop input Two voltage levels (terminals 3-6)	■
Voltage - Terminals 1-2	10 →260 VAC/DC
Input impedance	160 kΩ
Minimum pulse time DC	100 ms
Minimum pulse time AC	100 ms
Low level	0 →2 VAC/DC
High level	10 →260 VAC/DC

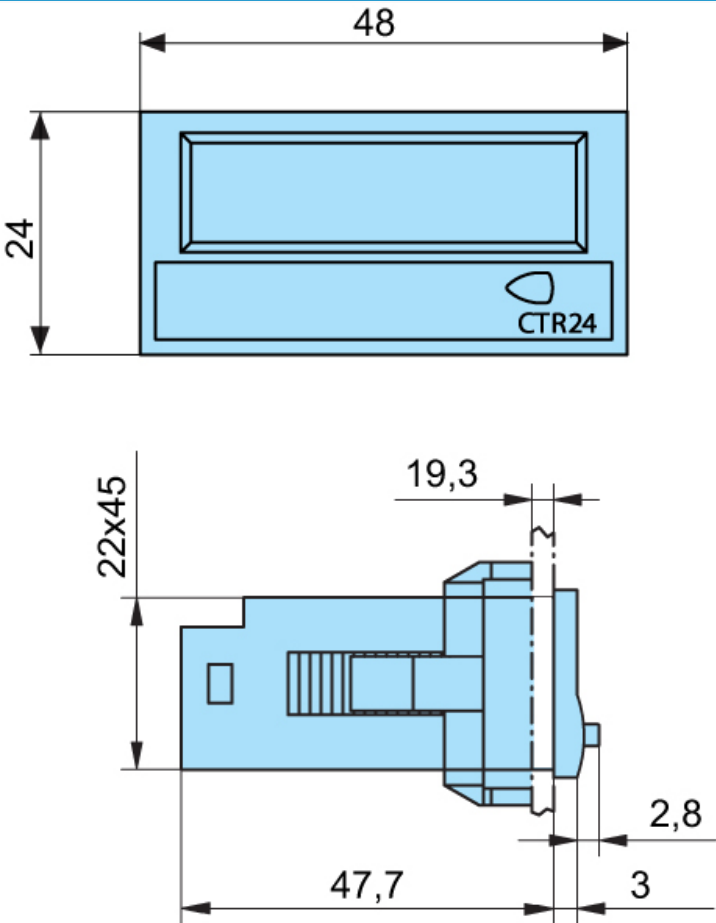
Reset to zero - External 2224-2324

Voltage - Terminals 2-3	■
Minimum pulse time	16 ms
Low level	0 →2 VAC/DC

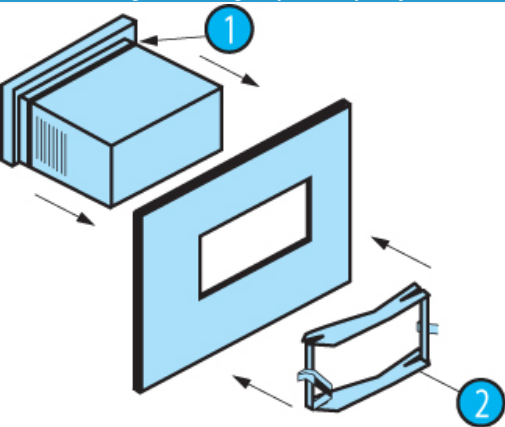
High level	10 →260 VAC/DC
Reset to zero - Panel	
Reset via	Inhibited : Terminals 4-6 not connected Active : Terminals 4-6 connected
Supply	
1 lithium battery - Life (years)	8

Description	Code
Adaptor for 50 x 25 mm cut-out - Fixed with screws	26546843
Adaptor for 50 x 25 mm cut-out - Fixed with clips	26546844
DIN rail adaptor	26546840
Clip-fixing kit (supplied with the product)	26546848

Dimension Diagram : CTR24

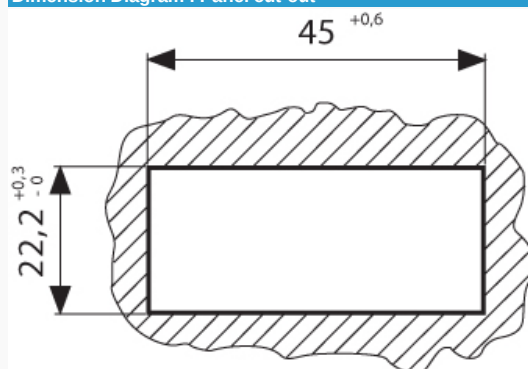


Dimension Diagram : Fixing strip with clip-on yoke

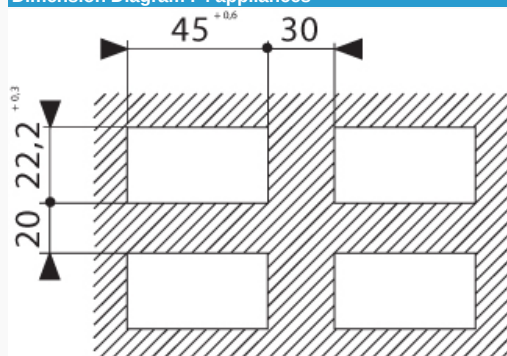


N°	Legend
1	Seal
2	Fixing yoke

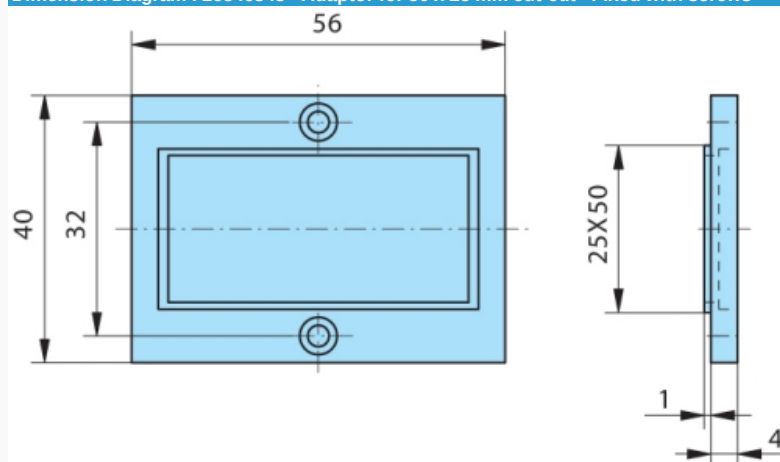
Dimension Diagram : Panel cut-out



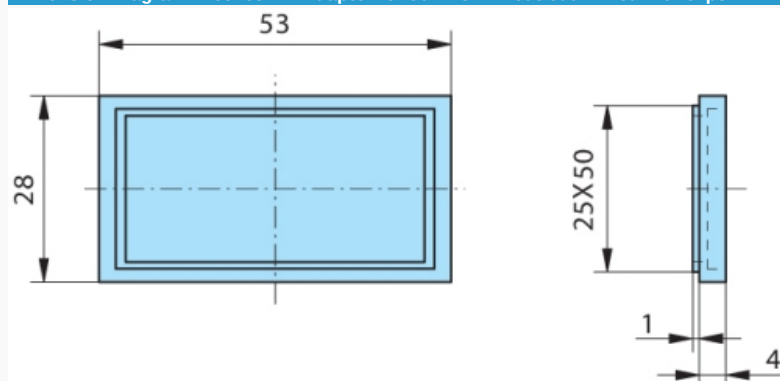
Dimension Diagram : 4 appliances



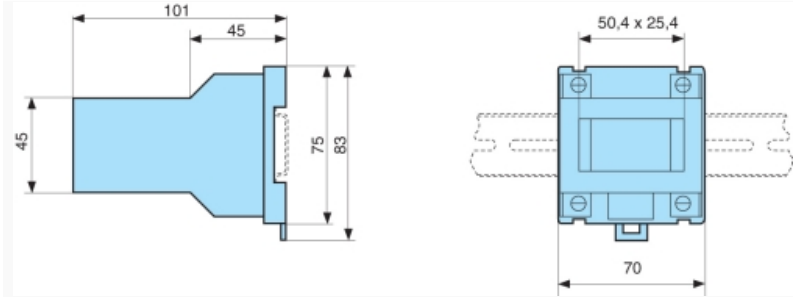
Dimension Diagram : 26546843 - Adaptor for 50 x 25 mm cut-out - Fixed with screws



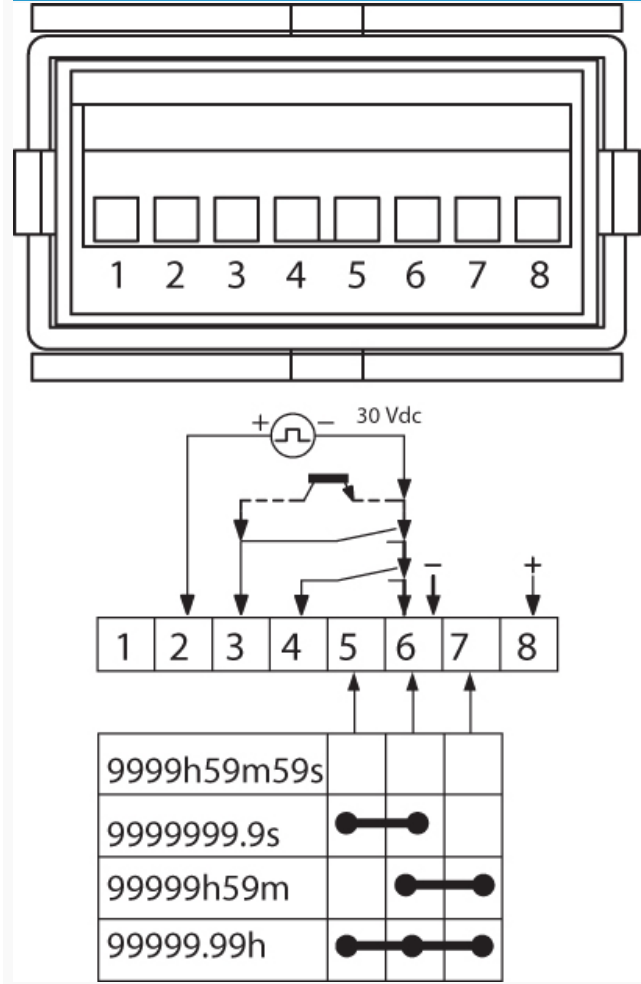
Dimension Diagram : 26546844 - Adaptor for 50 x 25 mm cut-out - Fixed with clips



Dimension Diagram : 26546840 - DIN rail adaptor

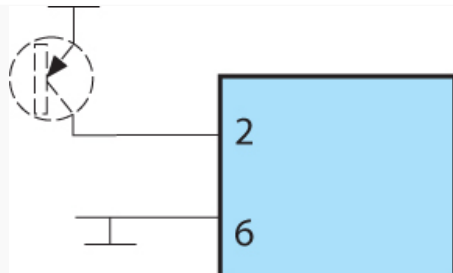


: 2223-2323

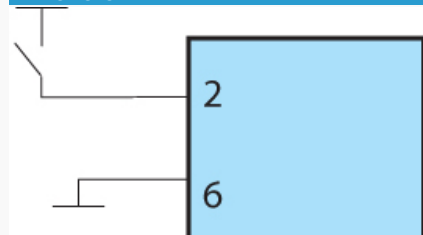


N°	Legend
1	NC
2	Start/Stop input
3	Reset input 100 ms
4	Enable panel reset
5	Mode 1 (Time selection)
6	0 V common/ (BL- only 23xx)
7	Mode 2 (Time selection)
8	Backlighting option + 24 VDC (only 2323)

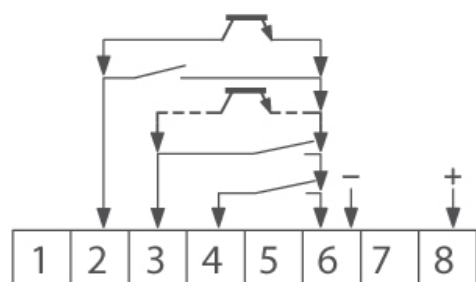
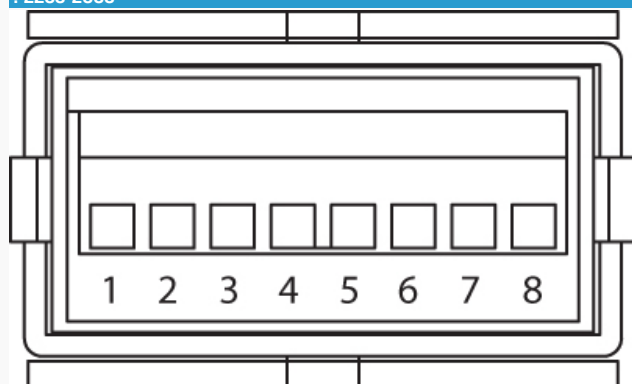
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: 2223-2323



: 2233-2333

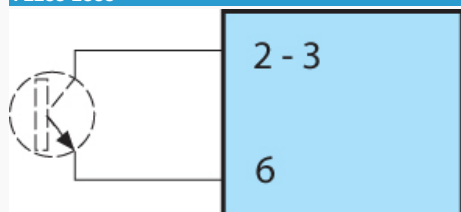


9999h59m59s			
9999999.9s	●	●	
99999h59m		●	●
99999.99h	●	●	●

N°	Legend
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1	NC
2	Start/Stop input
3	Reset input 100 ms
4	Enable panel reset
5	Mode 1 (Time selection)
6	0 V common/ (BL- only 23xx)
7	Mode 2 (Time selection)
8	Backlighting option + 24 VDC (only 2333)

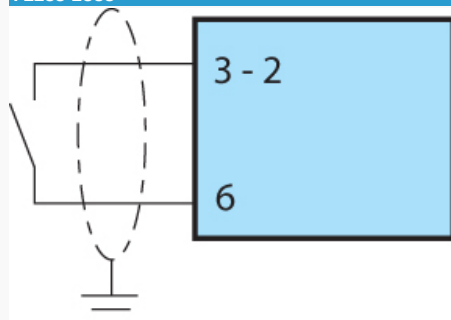
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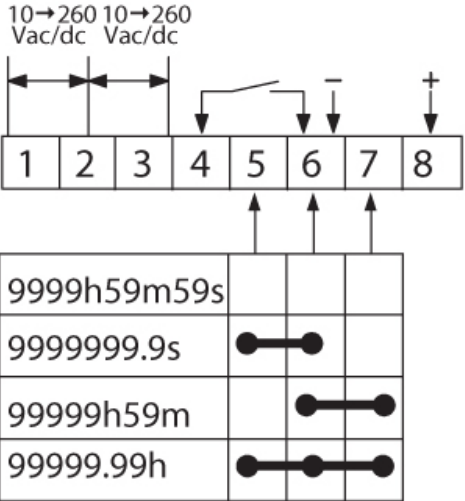
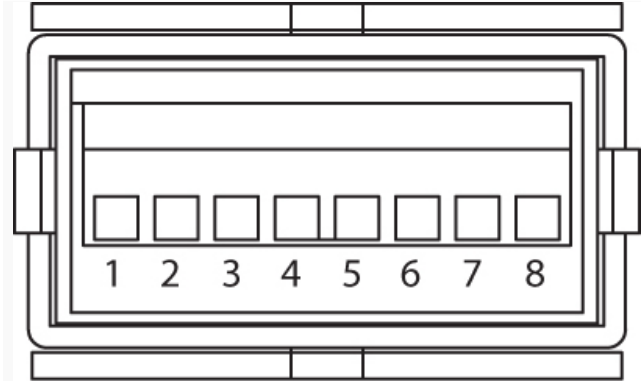
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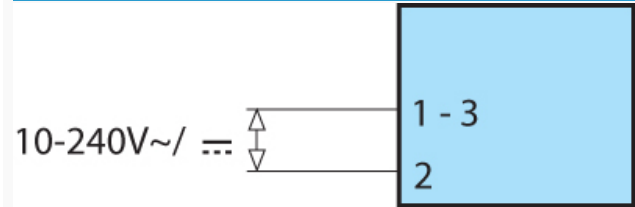


: 2224-2324

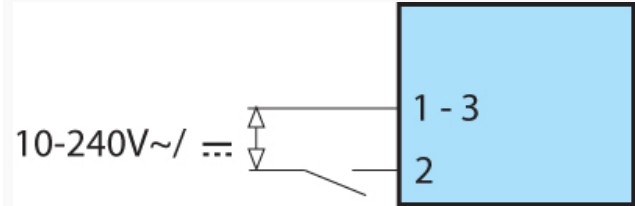


N°	Legend
1	Start/Stop input
2	AC/DC common
3	Reset input
4	Enable panel reset
5	Mode 1 (Time selection)
6	0 V common/ (BL- only 23xx)
7	Mode 2 (Time selection)
8	Backlighting option +24 VDC (only 2324)

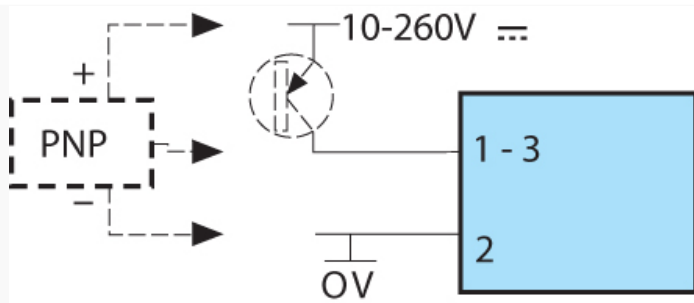
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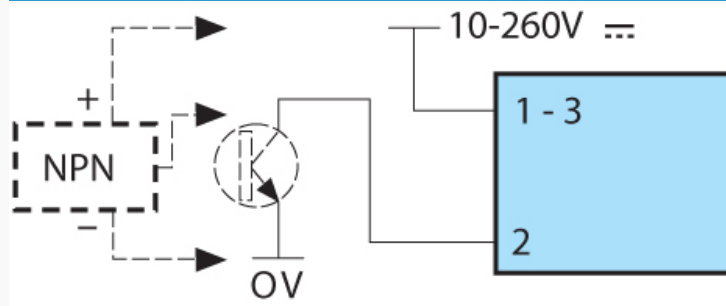
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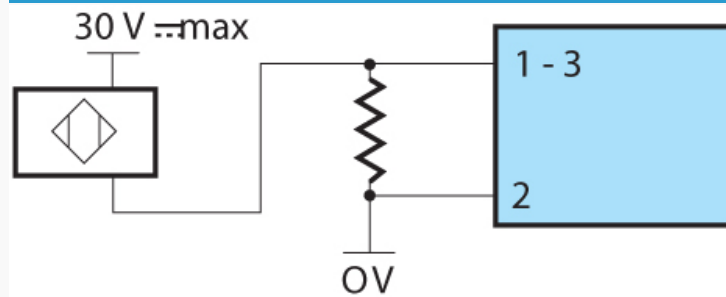
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