

Time and hours meters electronic

Count input for PNP, NPN or AC logic

Display LCD, 8-digits, coded time range

ISI34, ISI35



ISI34 - Hour counter

Features

- Time and hour counter
- ISI34 - Time range 99999 h 59 min / 99999.99 h
- ISI35 - Time range 9999 h 59 min 59 s / 9999999.9 s

Technical data - electrical ratings

Voltage supply	Lithium battery (approx. 8 years at 20 °C)
Display	LCD, 7-segment display
Backlit	24 VDC $\pm$ 20 %, 50 mA
Digit height	8 mm
Function	Hour counter
Count mode	Adding
Control	NPN, PNP, Pulses 10...260 VAC/VDC
Reset	Button and electric
Keylock	Yes, electric (keylock)
Emitted interference	DIN EN 61000-6-4
Interference immunity	DIN EN 61000-6-2
Programmable parameters	Time range
Approvals	UL/cUL, CE conform

ISI34

Number of digits	7-digits
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ISI35

Number of digits	8-digits
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Technical data - mechanical design

Operating temperature	-10...+60 °C
Storing temperature	-20...+70 °C
Relative humidity	80 % non-condensing
Core cross-section	2.5 mm ² fine wire AWG 12
Protection DIN EN 60529	IP 65 face with seal
Housing type	Housing for control panel installation
Housing colour	Deep grey, RAL 7021
Dimensions W x H x L	48 x 24 x 48 mm
Installation depth	47.7 mm
Mounting	Clip frame or screw mount
Cutout dimensions	25 x 50 mm (+0.5)
Weight approx.	50 g

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Type table

ISI34 - Hour counter

Without backlit With backlit	ISI34.010AA01 ISI34.010AB01	ISI34.011AA01 ISI34.011AB01	ISI34.013AA01 ISI34.013AB01
Version	NPN	PNP	AC/DC
Brief description	Time in: - Hours and minutes - Hours and 1/100 h	Time in: - Hours and minutes - Hours and 1/100 h	Time in: - Hours and minutes - Hours and 1/100 h
Signal input INP A	–	–	Timer AC/DC
Signal input INP B	Timer NPN	Timer PNP	External Reset AC/DC
Operating mode	99999 h 59 min or 99999.99 h	99999 h 59 min or 99999.99 h	99999 h 59 min or 99999.99 h

ISI35 - Hour counter

Without backlit With backlit	ISI35.010AA01 ISI35.010AB01	ISI35.011AA01 ISI35.011AB01	ISI35.013AA01 ISI35.013AB01
Version	NPN	PNP	AC/DC
Brief description	Time in: - Hours, minutes, sec. - Seconds and 1/10 sec.	Time in: - Hours, minutes, sec. - Seconds and 1/10 sec.	Time in: - Hours, minutes, sec. - Seconds and 1/10 sec.
Signal input INP A	–	–	Timer AC/DC
Signal input INP B	Timer NPN	Timer PNP	External reset AC/DC
Operating mode	9999 h 59 min 59 s or 999999.9 h	9999 h 59 min 59 s or 999999.9 h	9999 h 59 min 59 s or 999999.9 h

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ISI34, ISI35

Part number

ISI34.01 **A** **01**

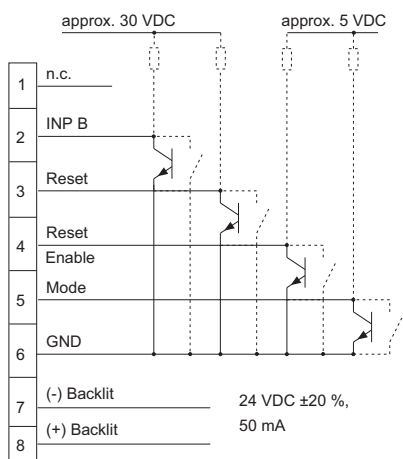
- Display
A Not backlit
B Backlit
- Design
0 NPN
1 PNP
3 AC/DC

ISI35.01 **A** **01**

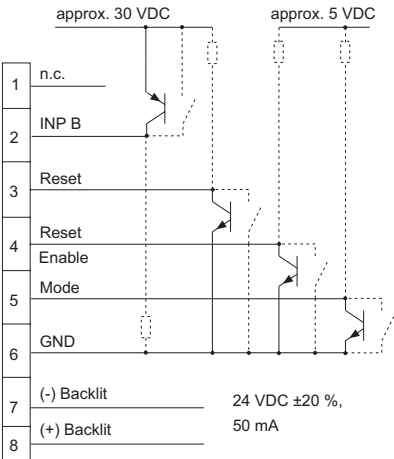
- Display
A Not backlit
B Backlit
- Design
0 NPN
1 PNP
3 AC/DC

Connection diagram

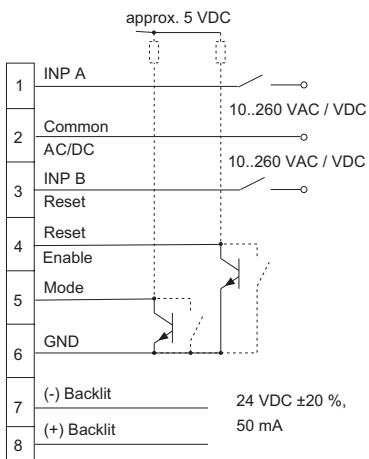
DC, NPN



DC, PNP



AC/DC



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Trigger level

Input	Input circuit
NPN input	Comparator (pin 2)
Input level Low	0...0.7 VDC
Input level High	3...30 VDC
Input resistance	1 MΩ
PNP input	Comparator (pin 2)
Input level Low	0...0.7 VDC
Input level High	4...30 VDC
Input resistance	100 kΩ
AC/DC inputs	Optocoupler (pin 1 + 3)
Input level Low	0...2 VAC/VDC
Input level High	10...260 VAC/VDC
Input resistance	160 kΩ
Min. pulse time	16 ms

Reset input for DC-Version

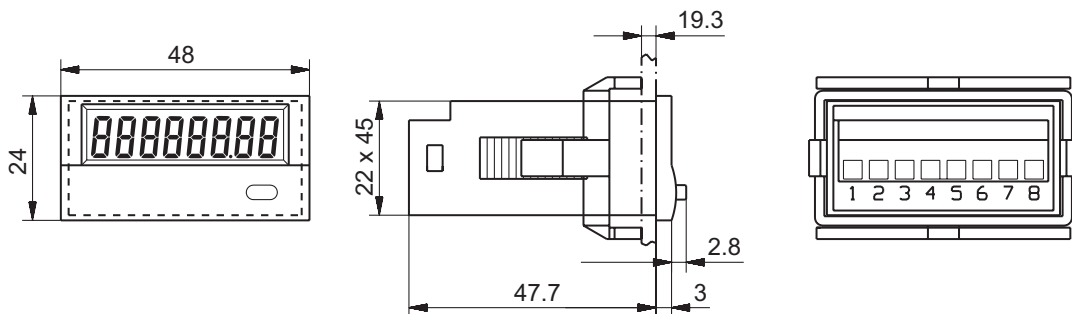
NPN reset input	Pin 3
Input level Low	0...0.7 VDC
Input level High	3...30 VDC
Input resistance	2,2 MΩ
Min. pulse time	50 ms

NPN control inputs

Input level Low	0...0.7 VDC
Input level High	3...5 VDC
Input resistance	2.2 MΩ

Dimensions

ISI34, ISI35



Front frame for screw/clip mount (included with delivery)

