Electronic counters without preselection

➜ Totalizers without preselection - LCD 24 x 48 - CTR24

- **Display: 8-digit LCD, height 8 mm**
- **Powered by a lithium battery**
- **Counter inputs: solid state (4-30 V⎓) or voltage (10 → 260 V∿)**
- **Reset on panel or external with inhibition option**
- **Backlit model (2341-2351-2342)**
- **Counting directions can be selected with input (2241-2341/2251-2351)**
- **Accessories for 50 x 25 mm cut-out**





Part numbers

Type	Type	Functions	Code
CTR24 non-backlit model	2241	Solid state input, lithium battery PNP/NPN	**87622061**
	2251	Solid state input, lithium battery NPN/NPN	**87622062**
	2242	Voltage input, lithium battery	**87622070**
CTR24 model with orange backlighting	2341	Solid state input, lithium battery PNP/NPN	**87622081**
	2351	Solid state input, lithium battery NPN/NPN	**87622082**
	2342	Voltage input, lithium battery	**87622090**

Accessories

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**

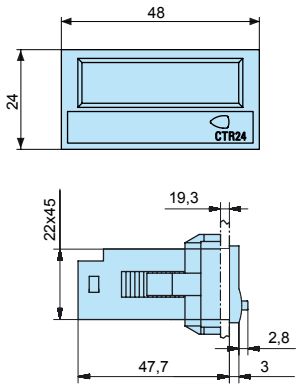
General characteristics

Environmental characteristics	
Consumption	Backlighting: 24 V⎓ ± 20% 50 mA
Connection by 8 screw terminals at rear of casing	✓
Connection capacity	1.5 mm²
Fixed using bracket	✓
Degree of protection front face	IP 65
Temperature limits use (°C)	-10 → +60
Temperature limits stored (°C)	-20 → +70
Breakdown voltage	Selon EN 61010-1: 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	Impulse counter
Display	8-digit LCD
Height digits (mm)	8
Counting capacity	-9.999.999 → 99.999.999 with elimination of zeros
Inputs 2241-2341	
1 slow counting input for contact closure on NPN open-collector transistor input (terminals 2-6)	✓
1 input for high speed counting signal from voltage level (terminals 1-6)	4 → 30 V⎓
Low level	0 → 0.7 V⎓
High level	4 → 30 V⎓ PNP
High-speed counting	12 KHz max. 42 µs PNP
Input impedance	100 KΩ PNP
Inputs 2251-2351	
1 slow counting input for contact closure on NPN open-collector transistor input (terminals 2-6)	✓
1 input for high speed counting signal from voltage level (terminals 1-6)	3 → 30 V⎓
Low level	0 → 0.7 V⎓
High level	3 → 30 V⎓
High-speed counting	7 KHz max. 70 µs NPN
Input impedance	1 MΩ

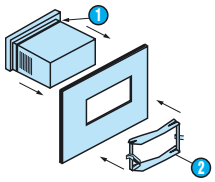
Reset - External 2241-2341 & 2251-2351	
Volt-free contact or open collector (terminals 3-6)	✓
Inputs 2242-2342	
1 input for slow counting 2 voltage levels	✓
Voltage - Terminals 1-2	10 → 260 V~
Input impedance (kΩ)	160
Slow counting	30 Hz
Minimum pulse time	16 ms
Low level	0 → 2 V~
High level	10 → 260 V~
Reset - External 2242-2342	
Voltage - Terminals 2-3	✓
Minimum pulse time	16 ms
Low level	0 → 2 V~
High level	10 → 260 V~
Reset to zero - Panel	
Reset via	Inhibited: Terminals 4-6 not connected Active: Terminals 4-6 connected
Supply	
1 lithium battery - Life (years)	8

Dimensions (mm)

CTR24

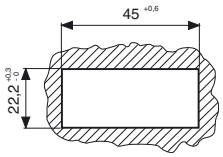


Fixing strip with clip-on yoke

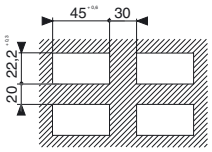


1 Seal
2 Fixing yoke

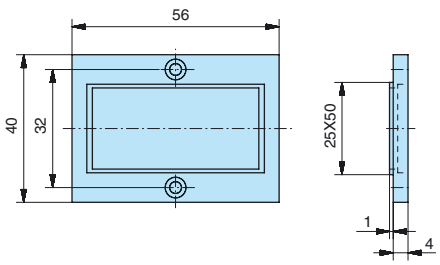
Panel cut-out



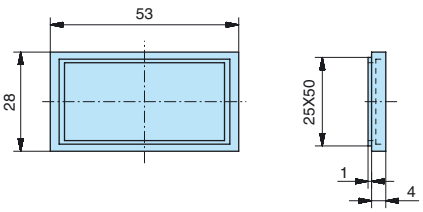
4 appliances



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

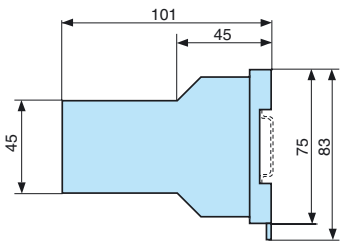


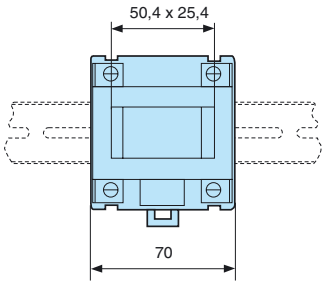
26546844 - Adaptor for 50 x 25 mm cut-out - Fixed with clips



Accessory supplied with the counter

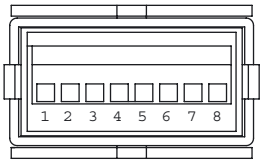
26546840 - DIN rail adaptor

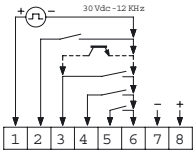




Connections

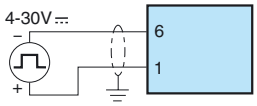
2241-2341





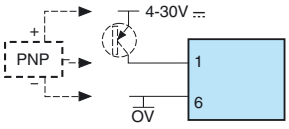
1. Fast count
2. Slow count
3. Reset input 12 ms
4. Enable panel reset
5. Mode count direction
6. 0 V common/ (BL- only 23xx)
7. Backlighting option (only 2341)
8. Backlighting option + 24 V⎓ (only 2341)

2241-2341



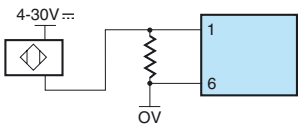
PNP fast count input - Voltage

2241-2341



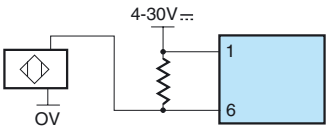
PNP fast count input Transistor or 3-wire PNP proximity sensor (for leakage current detector ≤ 1 mA)

2241-2341



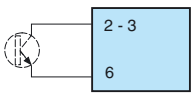
2-wire proximity sensor fast count input

2241-2341



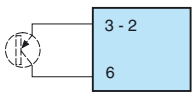
2-wire proximity sensor fast count input

2241-2341



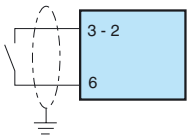
Slow count input (2) or reset input (3)

2241-2341



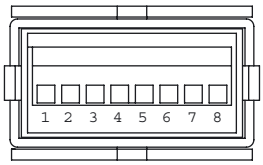
Slow count input (2) or reset input (3)

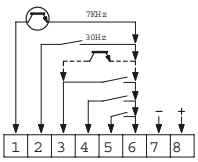
2241-2341



Slow count input (2) or reset input (3) - Contact not supplied with power

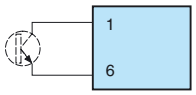
2251-2351





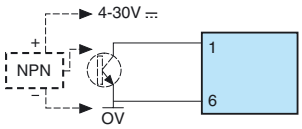
1. Fast count
2. Slow count
3. Reset input 12 ms
4. Enable panel reset
5. Mode count direction
6. 0 V common/ (BL- only 23xx)
7. Backlighting option + (only 2351)
8. Backlighting option + 24 V⎓ (only 2351)

2251-2351



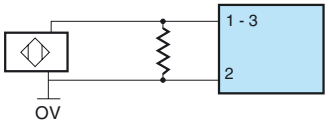
Fast count input NPN - Voltage

2251-2351



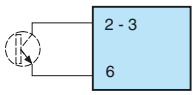
Fast count input NPN Transistor or 3-wire PNP proximity sensor (for leakage current detector ≤ 1 mA)

2251-2351



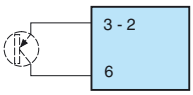
2-wire proximity sensor fast count input

2251-2351



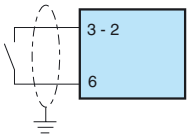
Slow count input (2) or reset input (3)

2251-2351



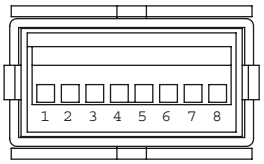
Slow count input (2) or reset input (3)

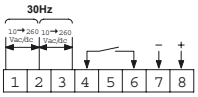
2251-2351



Slow count input (2) or reset input (3)
Contact not supplied with power

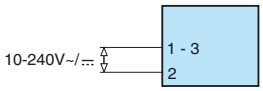
2242-2342





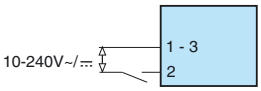
1. Fast count
2. AC/DC common
3. Reset input 12 ms
4. Enable panel reset
5. count direction
6. 0 V common/ (BL- only 23xx)
7. Backlighting option - (only 2342)
8. Backlighting option + 24 V⎓ (only 2342)

2242-2342



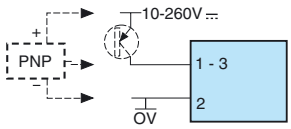
Counter or reset input - Voltage

2242-2342



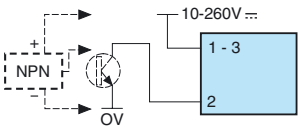
Counter or reset input -
Contact supplied with power

2242-2342



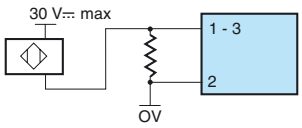
Counter or reset input PNP Transistor or 3-wire PNP proximity sensor (for leakage current detector < 1 mA)

2242-2342



Counter or reset input NPN Transistor or 3-wire PNP proximity sensor (for leakage current detector < 1 mA)

2242-2342



Start/Stop or reset input: 2-wire proximity sensor R=470 Ω/2 W for 2-wire leakage current detector ≤ 1 mA

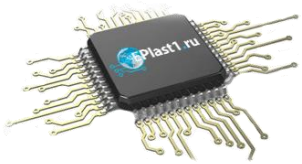
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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