

Электромеханические счетчики 486-487, 886-887, 446-447

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Type 886/887



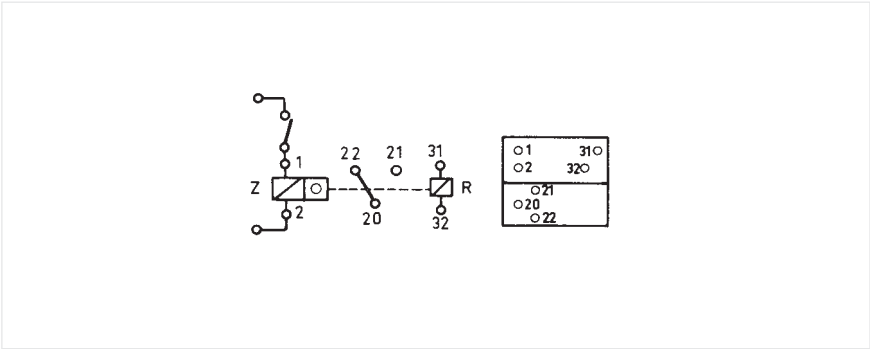
TECHNICAL DATA

Adding Preset Counters for Front Panel Mounting

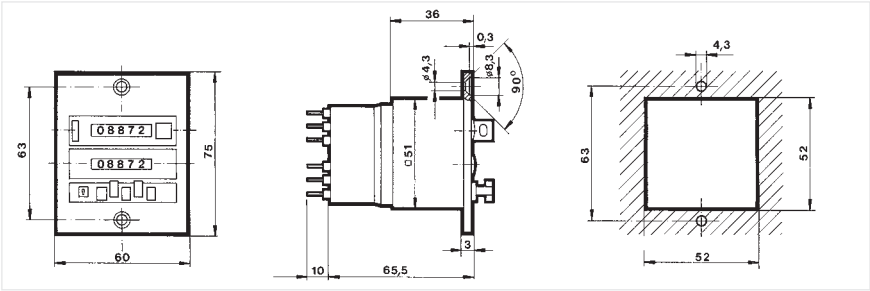
- Preset value continuously visible
- Manual or electric reset
- 3 or 5-digit indication
- Various front panel sizes available

Display	3 or 5-digit indication of count and preset value, depending on version
Digit height	4 mm
Supply voltage V_{op}	see ordering code table, tolerance $\pm 10\%$ 230 VAC $\pm 6-10\%$
Power consumption	counter: DC version 2.5 W, AC version 2.75 VA reset solenoid: DC version 12 W, AC version 16 VA
Residual ripple	48 %
Operating temperature	$-10 \dots +50\text{ }^{\circ}\text{C}$
Storage temperature	$-40 \dots +85\text{ }^{\circ}\text{C}$
Electrical connection	AMP connector, 0.8 x 2.8 mm
Mounting	screw or clamping spring attachment, see "Order information"
Mounting position	roller axis horizontal
Protection class (EN 60529)	front IP 30; connections IP 00; for higher degree of protection we recommend a protective case with clear cover (see "Accessories")
General design	EN 61010-1, EN 50178 Protection according to class II Contamination level 2 Over voltage category II
Duty cycle at 25 °C	Counter 100 %, reset solenoid: DC version 20 %, max. 2 minutes, AC versions 10 %, max. 1 minute
at 50 °C	Counter 50 %, max. 10 minutes
Maintenance-free operation	Counter: 2×10^8 , reset solenoid 1.5×10^6 pulses
Approvals	
Count input	adding
Min. pulse length	DC version 20 ms, AC version 50 ms
Max. counting frequency	DC version 25 Hz, AC version 10 Hz
Pulse duty factor	1:1
Reset	– manual with button – external by electrical signal (versions with reset solenoid only), min. pulse length 200 ms (max. see duty cycle); Reset frequency DC version max. 1 per 2 s
Pulse duty factor	DC version 1:5, AC version 1:10
Signal output	
Signal duration	from when preset has been reached until reset
Contact type	changeover contact, floating
Switching voltage	max. 220 VAC
Switching current	max. 20 VA/1 A, non-inductive

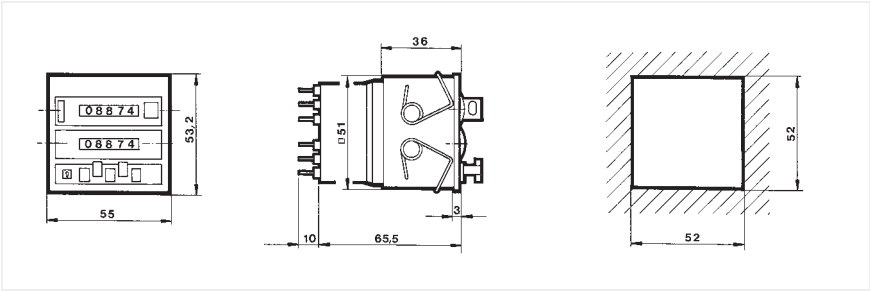
CONNECTION DIAGRAM



DIMENSIONS
Front panel 60 mm x 75 mm



Front panel 55 mm x 53 mm



ORDER INFORMATION

Counters for screw attachment
Front panel 60 mm x 75 mm

3 digits			5 digits	
Voltage	button reset	el. reset	button reset	el. reset
24 VDC	0 887 264	0 887 214	0 886 264	0 886 214
115 VAC	0 887 289		0 886 289	0 886 239
230 VAC	0 887 290	0 887 240	0 886 290	0 886 240

COUNTERS FOR SPRING
ATTACHMENT
Front panel 55 mm x 53 mm

3 digits			5 digits	
Voltage	button reset	el. reset	button reset	el. reset
24 VDC	0 887 464	0 887 414	0 886 464	0 886 414
230 VAC	–	–	0 886 490	0 886 440

Inquire for other voltages
For key reset add ordering code + SR, e.g. 0 887 264 SR

Type 446/447



TECHNICAL DATA

Subtracting Preset Counter, Plug-in System

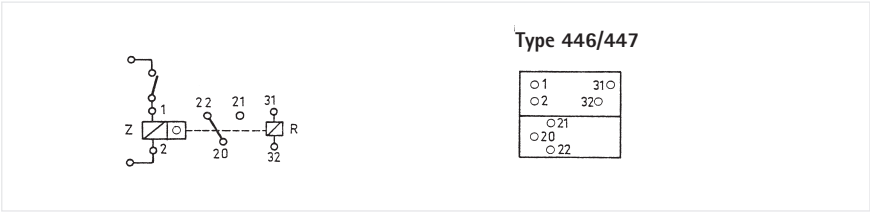
- Manual or electrical reset
- 3 or 5-digit display
- Plugs into modular system 400

Display	3 or 5-digit count and preset value indication, depending on version.
Digit height	4 mm
Supply voltage V_{op}	see ordering code table, tolerance $\pm 10\%$ 230 VAC $\pm 6-10\%$
Power consumption	counter: DC version 2.5 W, AC version 2.75 VA reset solenoid: DC version 12 W, AC version 16 VA
Residual ripple	48 %
Operating temperature	$-10 \dots +50\text{ }^{\circ}\text{C}$
Storage temperature	$-40 \dots +85\text{ }^{\circ}\text{C}$
El. connection	AMP connector, 0.8 x 2.8 mm (via connection box)
Mounting	modular system 400
Mounting position	roller axis horizontal
Protection class (EN 60529)	front IP 40; connections IP 00; for higher degree of protection we recommend a protective case with clear cover (see "Accessories")
General design	DIN EN 61010-1 Protection according to class II Contamination level 2 Over voltage category II
Duty cycle at 25 °C	Counter 100 %; reset solenoid: DC version 20 %, max. 2 minutes, AC versions 10 %, max. 1 minute
at 50 °C	Counter 50 %, max. 10 minutes
Maintenance-free operation	Counter 2×10^8 , reset solenoid 1.5×10^6 pulses
Approvals	UL: E 41 784-11
Count input	subtracting
Min. pulse length	DC version 20 ms, AC version 50 ms
Max. counting frequency	DC version 25 Hz, AC version 10 Hz
Pulse duty factor	1:1
Reset	– manual with button – external by electrical signal (versions with reset solenoid only), Min. pulse length 200 ms (max. see duty cycle); for longer reset pulses a continuous duty module must be used (see "Order information" and "Accessory modules") – automatic reset after preset has been reached (versions with reset solenoid only), using the automatic reset (see "Order information" and "Accessory modules")
Reset frequency	DC version max. 1 per s, AC version max. 1 per 2 s
Pulse duty factor	DC version 1:5, AC version 1:10
Signal output	
Signal duration	from when preset has been reached until reset
Contact type	changeover contact, floating
Switching voltage	max. 220 VAC
Switching current	max. 20 VA/1 A, non-inductive

Technical data

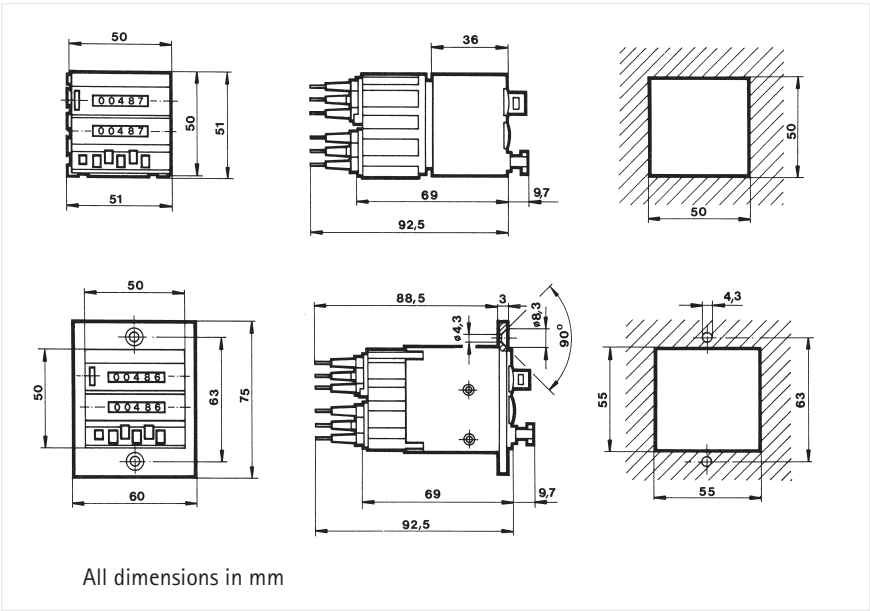
Type 446/447

CONNECTION DIAGRAM



DIMENSIONS
With connection box

With connection box
and panel frame



ORDER INFORMATION

Voltage	3 digits		5 digits		**	**
	button reset	el. reset	button reset	el. reset	cont. duty module	automatic reset
24 V DC	0 447 164	0 447 764	0 446 164	0 446 764	1 486 420	1 486 402
24 V AC	0 447 186	0 447 786	0 446 186	0 446 786	1 486 423	1 486 409
115 V AC	0 447 189	0 447 789	0 446 189	0 446 789	1 486 421	1 486 412
230 V AC	0 447 190	0 447 790	0 446 190	0 446 790	1 486 422	1 486 413

Standard accessories

Connection box	1 405 537
Panel frame, black	1 405 492
Key-reset system	Ordering code+ SR e.g. 0 447 164 SR

For further accessories see "Accessories".

Inquire for other voltages

** For technical data and dimensioned drawings see "accessory modules"
Use only counters with electrical reset.
The connection box is integrated in the module.

Type 486/487



TECHNICAL DATA

Adding Preset Counter, Plug-in System

- Preset value continuously visible
- Manual, electric or automatic reset
- 3 or 5-digit indication
- Plugs into modular system 400

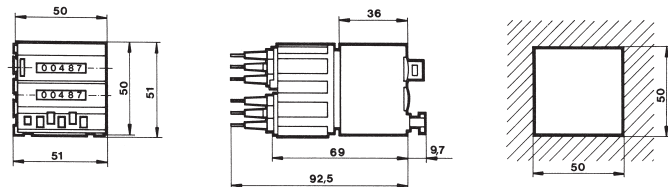
Display	3 or 5-digit indication of count and preset value, depending on version
Digit height	4 mm
Supply voltage V_{op}	see ordering code table, tolerance $\pm 10\%$ 230 VAC $\pm 6-10\%$
Power consumption	counter: DC version 2.5 W, AC version 2.75 VA reset solenoid: DC version 12 W, AC version 16 VA
Residual ripple	48 %
Operating temperature	- 10 ... + 50 °C
Storage temperature	- 40 ... + 85 °C
Electrical connection	AMP connector, 0.8 x 2.8 mm (with connection box)
Mounting	modular system 400
Mounting position	roller axis horizontal
Protection class (EN 60529)	front IP 30; connections IP 00; for higher degree of protection we recommend a protective case with clear cover (see "Accessories")
General design	EN 61010-1, EN 50178 Protection according to class II Contamination level 2 Over voltage category II
Duty cycle at 25 °C	Counter 100 %; reset solenoid: DC version 20 %, max. 2 minutes, AC versions 10 %, max. 1 minute
at 50 °C	Counter 50 %, max. 10 minutes
Maintenance-free operation	Counter 2×10^8 , reset solenoid 1.5×10^6 pulses
Approvals	UL: E 41 784-11
Count input	adding
Min. pulse length	DC version 20 ms, AC version 50 ms
Max. counting frequency	DC version 25 Hz, AC version 10 Hz
Pulse duty factor	1:1
Reset	- manual with button - external by electrical signal (versions with reset solenoid only), Min. pulse length 200 ms (max. see duty cycle); for longer reset pulses a continuous duty module must be used (see "order information" and "accessory modules") - automatic reset after preset has been reached (versions with reset solenoid only), using the automatic reset (see "order information" and "accessory modules")
Reset frequency	DC version max. 1 per s, AC version max. 1 per 2 s
Pulse duty factor	DC version 1:5, AC version 1:10
Signal output	
Signal duration	from when preset has been reached until reset
Contact type	Changeover contact, floating
Switching voltage	max. 220 VAC
Switching current	max. 20 VA/1 A, non-inductive

Technical data

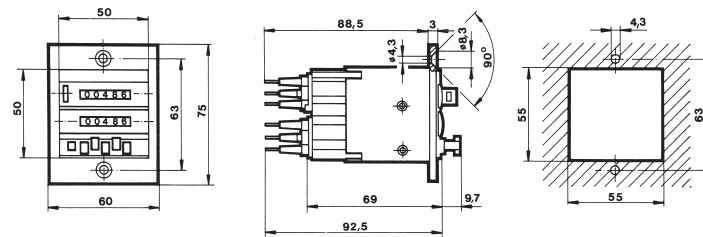
Type 486/487

DIMENSIONS

With connection box

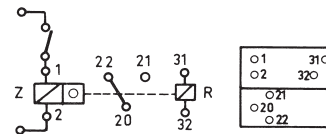


With connection box and panel frame



All dimensions in mm

CONNECTION DIAGRAM



ORDER INFORMATION

Counter

Voltage	**			
	3 digits button reset el. reset		5 digits button reset el. reset	
12 V DC			0 486 160	0 486 760
24 V DC	0 487 164	0 487 764	0 486 164	0 486 764
48 V DC	0 487 168		0 486 168	0 486 768
60 V DC		0 487 771		
110 V DC	0 487 174		0 486 174	
220 V DC		0 487 780	0 486 180	0 486 780
24 V AC	0 487 186	0 487 786	0 486 186	0 486 786
42 V AC		0 487 788	0 486 188	0 486 788
48 V AC				
100 V AC	0 487 198	0 487 798	0 486 198	0 486 798
115 V AC	0 487 189	0 487 789	0 486 189	0 486 789
200 V AC		0 487 799		
230 V AC	0 487 190	0 487 790	0 486 190	0 486 790

Standard accessories

Connection box	Ordering Code 1 405 537
Key-reset system	Ordering Code + SR e.g. 0 487 164 SR
Panel frame, black	Ordering Code 1 405 492

For further accessories see "Accessories"

* on request

** For technical data and dimensioned drawings see accessory modules.

Use only counters with electrical reset.

The connection box is integrated in the module.

Preset
Counters

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