Counters
Product Program

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HENGSTLER

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HENGSTLER
● BEYOND THE STANDARD

	tico 731	tico 732
	Electronic Counters	**Electronic Counters**

Key specs	› Small, compact in DIN size: 24 x 48 mm
	› 5 different versions: Totalizing counter, Timer, Tachometer, 2-channel position indicator and Counter with differential mode
	› 8-digit LCD- or 6-digit LED-display
	› Different supply voltages available:
	  - independent of mains supply with lithium battery
	  - 12-24 VDC supply, 12-250 VAC/VDC
	› Programmable count input for voltage signal or contact
	› Frequency 7,5 kHz or 30 Hz
	› RESET: reset input with contact
	› KEYLOCK: locking of the reset key
	› UL Certified
		› Multifunctional counter series, used as totalizing and preset counter, tachometer, time counter, shift or batch counter
		› DIN size: 48 x 48 mm
		› 6-digit, high contrast LED display or reflective LCD display
		› Bi-directional multifunctional counter
		› Various voltage supplies: 12-24 VDC; 115 VAC or 230 VAC
		› 1 or 2 presets
		› Input frequency up to 5 kHz
		› Freely adjustable prescaling
		› Programmable keyboard lock
		› Easily programmable via front button keypad
		› UL Certified

Fields of application	› Totalizing › Produced quantity counting › Production counting › Length measuring (in combination with encoder) › Small machinery › Packaging machines › Crimping machines › Speed monitoring and position monitoring	› Display and control unit in any automation and machinery application › Packaging machines › Wood processing machines › Assembly and handling small machines › Conveyor and transportation automation › Small milling and grinding machines › Laboratory equipment › Speed monitoring and position monitoring
Verticals	› Factory automation › Process industry › Machine building	› Factory automation › Process industry › Machine building › Food and beverages

	tico 772/773/774	Signo 721
	Electronic Counters	**Electronic Counters**
Key specs	› Multifunctional, universally applicable as preset and totalizing counter, time counter, tachometer, 2-shift counter and batch counter › DIN size: 48 x 48 mm › Type 773: with USB interface, type 774: with RS232 interface › 2 line; 6- and 6-digit display › Four different backlight colours with adjustable backlighting › Easy to operate › Input frequency up to 60 kHz › Easy installation via plug-in terminals › 3 presets › UL Certified	› Preset counter › DIN size: 48 x 48 mm › Most simple handling › Input counting frequency up to 60 kHz › Various VAC and VDC input voltages › Different display types: reflective LCD, transmissive LCD black or red digits › 2-line; 5- and 6-digit display › 1 or 2 relays › Counting frequency up to 60 kHz › Easy installation by pluggable terminals › UL Certified
Fields of application	› Display and control unit in any automation and machinery application › Packaging Machines › Ceramic production machinery › Food and beverages industry machinery › Wood processing machines › Assembly and handling small machines › Conveyor and transportation automation › Small milling and grinding machines › Laboratory equipment	› Display unit in any automation and machinery application › Packaging Machines › Conveyor and transportation automation › Small milling and grinding machines › Laboratory equipment
Verticals	› Factory automation › Process industry › Machine building › Food and beverages	› Factory automation › Process industry › Machine building › Food and beverages

tico 735A

Process Indicators

> Process indicator for AC/DC Voltage, DC Process and as a general display
> DIN size: 48 x 96 mm
> "Awesome" 18 mm high digit LED display with 2 colours programmable
> 90-264 VAC, 20-50 VAC/VDC
> Up to 2 relays
> Optional Communication interface RS 485
> With 4-20 mA analog output
> UL Certified

> Display unit for Process Automation
> Control panels
> Laboratory equipment
> Pharmaceutical processing machines"

> Process Automation
> Food and beverages
> Chemical

Self-Powered Counter 750

Self-powered Counters

> Simple, innovative and cost effective
> ATEX certification for Gas
> Fully customizable product according customer application
> No power supply required
> Extreme shock and vibration resistant
> Most compact design of its class: 36.5 mm mounting depth and 28 mm diameter
> Suitable for all fluid media types: water, gas, etc.
> Applicable as for preventive maintenance tool for counting cycles of an equipment or tools
> Easy and fast field installation
> Fraud protection
> Various communication protocols applicable: NAMUR, HART, MBUS, Wireless

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> Electronic consumption data acquisition in custom gas meters for areas exposed to explosive hazards
> Gas meters
> Systems for preventive maintenance

> Factory automation
> O&G
> Water and fluids metering

635 AC mini "iw"

Electromechanical Counters

> Small AC voltage counter (50 and 60Hz)
> 6-digit
> Without reset function
> Small mounting dimensions
> Low power consumption
> Easy to install
> Protection class IP 66

> Various machines
> Electrical machine installations

> Factory automation
> Machine building

634/635 DC mini "i"

Electromechanical Counters

> Incremental totalizing counters
> 6- or 7-digit
> Various DC versions
> Without reset function
> Type 634: high magnetic resistance
> Type 635: high shock stability
> Low power consumption
> Standard electrical connections
> Suitable for PCB mounting
> Machine-solderable and washable (type .1 and .3)
> Protection class IP65, IP66
> Models with extended temperature range available

> Small machines
> Gaming
> Petrol stations

> Factory automation
> Machine building
> Elevator

635 AC/DC mini "i" DIN	636 DC hour meter - *NEW*

	Electromechanical Counters	Electromechanical Time Counters
Key specs	› Totalizing counters › 6- or 7-digit › Various AC, DC and AC/DC versions › Without reset function › Low power consumption › DIN-rail attachment › Wide voltage range › Screw-type terminals	› Time counters › Standard cutout size 37x24mm › 7-digit › 5 - 30 VDC › Without reset function › Best-in-class mounting depth of 44mm › Fully sealed - IP 67 › Wide temperature range › Low power consumption › Standard electrical connection - 6,3mm [1/4""] male blade
Fields of application	› Switches or any counts measuring in switch cabinet installations › Electrical machine installations › Elevators	› Agricultural vehicles and machines › Diesel generators › Compressors › OHV's
Verticals	› Factory automation › Machine building	› Factory automation › OHV › Machine building › Agriculture › Medical

633 DC mini "h"	633 AC mini "h"

	Electromechanical Time Counters	Electromechanical Time Counters
Key specs	› Time counters › 6- or 7-digit › High shock resistance › Without reset function › Small dimensions › Low power consumption › Standard electrical connections › Suitable for PCB mounting › Type 0633.0 machine-solderable and washable › Protection class IP 66	› Time counters › 6-digit › 24, 115, 230 VAC › 50, 60 Hz › Without reset function › Small dimensions › Low power consumption › Quiet operation › Protection class IP 66
Fields of application	› Machine / Working hours measuring › Dialisys machines › Small OHV's › Agriculture vehicles	› Machine / Working hours measuring › Electrical machinery
Verticals	› Factory automation › OHV › Machine building › Agriculture › Medical	› Factory automation › Machine building

633 DC mini "i" DIN

Electromechanical Time Counters

- Time counters
- 7-digit
- Various DC versions
- Without reset function
- Low power consumption
- DIN-rail attachment
- Low power consumption
- Screw terminal connection
- Suitable for switch cabinet installation
- Snap-on attachment for 35 mm (0.20 in) DIN-rail

- Machine / Working hours measuring in switch cabinet installations
- Electrical machine installations
- Elevators

- Factory automation
- Machine building

891 DIN

Electromechanical Time Counters

- Time counters
- 7-digit
- Without reset function
- DIN dimensions: 24 x 48 mm; 48 x 48 mm and 72 x 72 mm via adapter frames
- Easy-to-read display
- Screw-type terminal connections
- UL Certified

- Compressors
- Electrical machines
- Crimping Machines
- Injection Moulding Machines

- Factory automation
- Machine building
- Elevator

891 "Surface"

Electromechanical Time Counters

- Surface mounting or DIN-rail attachment
- See 891 type

- Machine / Working hours measuring in switch cabinet installations
- Electrical machine installations
- Elevators

- Factory automation
- Elevator
- Machine building

853

Electromechanical Counters

- Totalizing counter
- Surface mounting
- Various VAC and VDC versions
- 6-digit
- Button reset, key reset
- Simple installation

- Production lines
- Automation applications where built-in version is not suitable
- Packaging machines
- Crimping machines

- Factory automation
- Machine building
- Process industry

464-468	Piccolo 872-877

Electromechanical Counters	**Electromechanical Counters**
Key specs	
› 4-, 6- or 8-digit display	› Totalizing counters
› Various VAC and VDC versions	› Small mounting dimensions
› With manual/electrical reset or without reset	› 4-, 5-, 6- or 7-digit display
› Plugs into modular system 400	› Various VAC and VDC versions
› Can be combined with other counters in the Modular System 400	› AMP connector connection
› Convenient for service	› Button reset or without reset
› Easy maintenance through plug-in system	› Simple installation
› UL Certified	› UL Certified

Fields of application	
› Production lines	› Production lines
› Packaging machines	› Packaging machines
› Crimping machines	› Crimping machines
	› Coffee machines

Verticals	
› Factory automation	› Factory automation
› Machine building	› Machine building
› Process automation	› Process industry

864-868	478

Electromechanical Time Counters	**Electromechanical Time Counters**
Key specs	
› 4-, 6- or 8-digit display	› Time counters
› For front panel mounting	› 6-digit, button reset
› VAC and VDC versions	› 7-digit without reset
› With manual/electrical reset or without reset	› Various AC and DC versions
› Simple installation	› Manual reset, key reset or without reset
› Convenient for service	› Simple installation
› Various front panel sizes	› Can be combined in the modular system 400
› UL Certified	› Easy maintenance

Fields of application	
› Production lines	› Electrical cabinets
› Packaging machines	› Electrical machines
› Crimping machines	› Crimping Machines

Verticals	
› Factory automation	› Factory automation
› Machine building	› Machine building
› Process automation	

446-447

Electromechanical Preset Counters

> Subtracting preset counters
> 3- or 5-digit
> Various VAC and VDC versions
> Button, electrical or key reset
> Plugs into modular system 400
> Preset constantly visible
> Simple installation
> Easy maintenance

> Production lines
> Packaging machines
> Crimping machines"

> Factory automation
> Machine building
> Process industry"

886-887

Electromechanical Preset Counters

> Adding preset counters
> 3- or 5-digit
> Various VAC and VDC versions
> Button, electrical or key reset
> Preset constantly visible
> Front panel mounting
> Simple installation via screw attachment
> Easy maintenance

> Production lines
> Packaging machines
> Crimping machines

> Factory automation
> Machine building
> Process industry

486-487

Electromechanical Preset Counters

> Adding preset counters
> 3- or 5-digit
> Various VAC and VDC versions
> Button, electrical or key reset
> Plugs into modular system 400
> Preset constantly visible
> Simple installation
> Easy maintenance

> Production lines
> Packaging machines
> Crimping machines

> Factory automation
> Machine building
> Process industry"

651 Pulse Scaler

Electronic Pulse Scalers

> Programmable pulse scaling factor up to 2047:1
> NAMUR generator input
> DIN-rail attachment
> PNP transistor output
> Can be used as pulse shaper
> Max. pulse frequency 5 kHz

> Electronic and electromechanical applications where pulses need to be rescaled

> Factory automation
> Machine building

Colibri 490	101/103/301/309
Mechanical Counters (With Magnetic Actuation)	Mechanical Counters

	Colibri 490	101/103/301/309
Key specs	› Contactless counting › 6- or 7-digit › Actuation by a magnet or Iron › Small dimensions › Easy installation › Protection class IP 65 › Without reset function › Maintenance-free operation › Applicable as for preventive maintenance tool for counting cycles of an equipment or tools	› Small mechanical revolution and stroke counters › 4- or 5-digit › Revolution counter with transmissions: 1:1, 1:10 › Actuation left or right and both directions available › Surface or flush mounting › Available with or without case › Without reset function
Fields of application	› Crimping machines › Stamping tools › Counting of moving pistons at end positions › Various application where counting is needed via contactless actuation and without electric power	› Small handling machines › Production assembly hand operated presses › Circuit breakers › Coffee-machines › Various measuring and counting devices
Verticals	› Factory automation › Machine building	› Factory automation › HV circuit breakers › Machine building

125	225
Mechanical Counters	Mechanical Counters

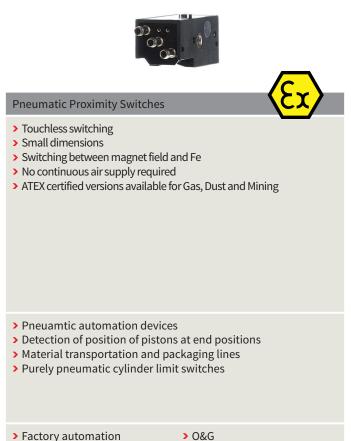|	125	225
Key specs	› Revolution and stroke counters › 4- or 5-digit › Miniature size › Transmission ratio 1:1 or 1:10 › Actuation left or right and both directions available › Surface mounting › With button reset › Protection class IP 50 › Size: 53 x 45 x 35 mm	› Revolution, length and stroke counters › Approved for length counting by the PTB (German Federal Institute für Physics and Technology) › 6-digit display (m/dm or m/cm) › Large digits, 6.5 mm high › With button reset › Counter with suspension device › Adjustable counterweight › Size: 132 x 69,2 x 74,2 mm
Fields of application	› Small handling machines › Production assembly hand operated presses › Various measuring and counting devices › Piece and/or stroke counting for punches or presses › Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc.	› Various length measuring and counting devices › Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc. › Production assembly hand operated presses › Piece and/or stroke counting with quantity setting for punches or presses
Verticals	› Factory automation › Machine building	› Factory automation › Machine building

150

Mechanical Counters

> Revolution counter, transmission ratio 1:10
> 6-digit
> Robust and durable design
> Length counter, transmission ratio 1:2, stroke counter, transmission ratio 1:1
> Actuation on both sides, right or left and both directions
> Surface mounting
> With button reset
> Size: 80 x 45 x 43,5 mm

> Small handling machines
> Production assembly hand operated presses
> Various measuring and counting devices
> Piece and/or stroke counting for punches or presses
> Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc.

> Factory automation
> Machine building

205/110/111/312

Mechanical Counters

> Type 205: Length measuring counters
> Type 110/111: Revolution counters
> Type 312: Stroke counters
> 7-digit display
> Large 8 mm digits
> Actuation on both sides and both directions
> With key reset
> Size: 132 x 69,2 x 74,2 mm

> Various length measuring and counting devices
> Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc.
> Production assembly hand operated presses
> Piece and/or stroke counting with quantity setting for punches or presses

> Factory automation
> Machine building

250

Mechanical Preset Counters

> Preset revolution, length and stroke counters
> 5-digit
> Large 6,5 mm (0.3 in)-high digits
> Robust and durable design
> Transmission ratios 1:1, 2:1, 1:5
> Large and easy operated preset buttons
> Button reset, secured against accidental operation
> Actuation on both sides
> Surface mounting
> Size: 132 x 69,2 x 74,2 mm

> Various length measuring and counting devices
> Length measuring of cables, foils, fabrics, metals, bands, ropes, paper, etc.›› Production assembly hand operated presses
> Piece and/or stroke counting with quantity setting for punches or presses

> Factory automation
> Machine building

ENM UN/Tampons

Automatic Numbering Machines

> Universal self-inking numbering machines
> Automatic version: numbers change automatically in 8 different settings: repeat, consecutive, 2- , 3-, 4-, 5-, 6- and 12-times repeat
> Manual version: number change is done by operator manually by a lever
> Different fonts and digit sizes available
> Available in plastic or full metal versions
> Inking tampons with durable and high quality ink

> Document numbering in offices or production facilites
> Identifying processed documents - orders, job tickets, WIP cards, despatch sets, shipping documents, etc.

> Various office work areas
> Customs
> Document processing
> Archives

495 Pneu	499 Pneu Timer and Reset Module
Pneumatic Counters	**Pneumatic Timers**

	495 Pneu	499 Pneu Timer and Reset Module
Key specs	› Pneumatic totalizing counters › 6 or 8-digit display › Versions for flush and surface mounting › Manual, pneumatic or without reset › Hose coupler M5 or rapid-fit connector › Simple installation › Maintenance-free operation › ATEX certified versions available for Gas, Dust and Mining	› Preset timers in various time ranges › Convenient setting of preset value by rotary knob › Preset and remaining time values continuously visible › Precise time preset 0.2 s to 300 s › DIN dimensions and optional for DIN-rail mounting › Maintenance-free operation › Hose coupler M5 or rapid-fit connector › Pressure-independent › No continuous air supply required › ATEX certified versions available for Gas, Dust and Mining
Fields of application	› Quantity counting › Order and daily production value recording › Packaging unit control › Dosing and filling (resins, liquids, powders, etc.) › Production assembly hand operated presses	› Pneumatic applications with fully automatic time control › Automatic door control units for passengers vehicles › Time control with manual intervention › Industrial transportation systems (eg. for fine powders also with combustion risk) › Oil and gas areas › Dosing and filling (resins, liquids, powders, etc.)
Verticals	› Factory automation › O&G › Food & Beverages industry › Chemical	› Factory automation › O&G › Food & Beverages industry › Chemical › Railway

497 Preset Counter	497 Preset Timer
Pneumatic Preset Counters	**Pneumatic Preset Time Counters**

	497 Preset Counter	497 Preset Timer
Key specs	› Preset totalizing counters › 3- or 5-digit › Adding or subtracting versions › Convenient button setting › Preset constantly visible (in adding mode) › 2 - 8 bar › Hose coupler M5 or rapid-fit connector › Front panel installation › Button and pneumatic reset, automatic reset › Integrated pneumatic reset › ATEX certified versions available for Gas, Dust and Mining	› Preset time counters › 3 or 5-digit display › Seconds and Minutes versions › Preset values continuously visible › Hose coupler M5 or rapid-fit connector › Integrated pneumatic reset › Optional automatic reset › Convenient button setting › Maintenance-free operation › ATEX certified versions available for Gas, Dust and Mining
Fields of application	› Pneumatic fully automatic control systems › Industrial transportation systems (eg. for fine powders also with combustion risk) › Oil and gas areas › Dosing and filling (resins, liquids, powders, etc.) › Chicken vaccination devices	› Pneumatic applications with fully automatic time control › Clock generator › Time control with manual intervention › Compressors › Paint spaying machines › Industrial transportation systems (eg. for fine powders also with combustion risk) › Oil and gas areas › Dosing and filling (resins, liquids, powders, etc.)
Verticals	› Factory automation › Railway › Food & Beverages industr › O&G › Chemical"	› Factory automation › O&G › Food & Beverages industry › Chemical

490 Pneumatic Proximity Switch

Pneumatic Proximity Switches

> Touchless switching
> Small dimensions
> Switching between magnet field and Fe
> No continuous air supply required
> ATEX certified versions available for Gas, Dust and Mining

> Pneuamtic automation devices
> Detection of position of pistons at end positions
> Material transportation and packaging lines
> Purely pneumatic cylinder limit switches

> Factory automation
> Food & Beverages industry

> O&G
> Chemical

Accessories

General

> Various sizes to fit different types of counters
> Robust measuring wheels with various materials and sizes
> Covers lockable with key or knob
> Different materials and sizes of levers to fit all types of stroke counters and application

> Stroke levers: For mechanical stroke lever counter applications
> Measuring wheels: Conversion of lengths to rotations
> Covers: For mounting of counters and improving IP

HENGSTLER
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