

Status: 09/2024



Label dispensers
for industrial use

ROXI
Made in Germany

Expert units at best price

ROXI label dispensers

The future-proof investment for precise insert labeling.

Perfect in every detail, the new label dispenser ROXI.

Solid construction, advanced in electronics, software and usability.

Small in price, great in performance



Compact and slim design

easy to install in production lines

Any assembly

vertical, horizontal, inclined – in left-hand and right-hand designs

High quality and reliability

by assembling proven functional modules at the production site in Germany

Durable and easy to maintain

designed for permanent industrial use, firmware updates via Ethernet or USB interface

Cost-efficient solution

The complete range of features with all interfaces and software functions are included and provided as a standard.

Dynamic speed control

A master encoder enables label webs been fed automatically and in accordance with the speed of items running on a conveyor.

Safety guaranteed

CE, CB, ULus certified by an authorized testing lab

Quick setups

by simple material changeover

Comfortable operation

Navigate intuitively in eleven languages, access major features instantly, set parameters in detail using a comprehensive menu.

Future-proof data interfaces

for data communication, MQTT, Modbus and OPC UA to enable cross-platform interaction, protocols are kept simple and lean, machine and system data can be updated in real time, two USB interfaces enable WLAN, plugging a warning light or an external control panel.

Remote control

Via VNC with a higher-level machine controller, a PC or the external control panel

Web interface

for example backup data and access of all documentation related to a unit

Useful accessories

Assembly columns, stands, connecting cables, etc. help label dispensers been installed ready for use.

Control panel

Intuitive and easy operation.

Rotatable in steps of 180°, depending on the orientation in which a dispenser has been installed.

A self-explanatory menu for device configuration



ON/OFF

Switch label dispenser on or off

Status bar

Speed, label winding, label size, WLAN signal, status of start / stop signal

Operational notes and warnings

along with status and menu parameters

Counter and diagnostics

configurable specified to an application

Quick menu

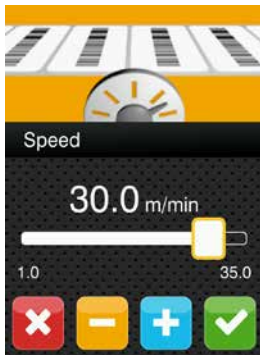
for extra-fast parameter setting

Pre-dispense key

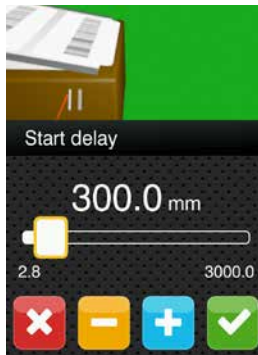
for dispensing labels manually



Label web speed



Start delay



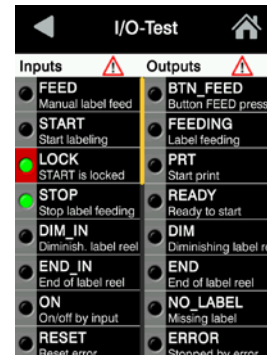
Stop delay



Menu



I/O status



Operating instructions

View feed path schemes on display. For further explanatory videos, scan QR code with a mobile device.



Dispensing speed
in synchronization with the speed of products on a conveyor

Position of a label on an item
Including multiple labeling; start condition

Stop labels at the dispensing plate
Missing labels are detected; stop condition

Define print settings
for controlling a printer and a label transfer unit



SPEED



START



STOP



PRINT



SYSTEM



FORMAT



CHARGE



SERVICE

Define system settings
such as display, language, label webs ending, interfaces

User configuration
to any number of formats, PC backup and restore

Batch counter
Automatic stop after specified number of products

Service tools
Maintenance assistant, video tutorials, display and setting of inputs and outputs for service purposes

Menu

Technical data and interfaces

■ Standard □ Additional options

Label dispensers		Type	ROXI 120	ROXI 180
Web speed	up to	m/min	30	20
Orientation of assembly			vertical / horizontal	
Direction to which dispense labels			L = to the left, R = to the right	
Labels	Material on roll		Paper, plastics PET, PE, PP, PVC	
	Width	mm	10 - 116	10 - 176
	Length	mm	10 - 6,000	
	Distance	from mm	2	
	Thickness	mm	0.055 - 1.0	
Liner tape	Width	up to mm	120	180
Weight of media roll	up to	kg	12	
Unwinder	Outside-Ø	mm	300	
	Core-Ø	mm	76	
	Winding		outside or inside	
Rewinder	Outside-Ø	mm	200	
	Core-Ø	mm	76	
Label dispenser without demand module	Width	mm	480	
	Height	mm	530	
	Depth	mm	266	328
	Weight	kg	12	13.5
Label sensor	detecting		label margin and materials ending	
Distance to the locating edge inductive	mm		□ 20 - 60	
Transmitted light	mm		□ 8	
Operating data	Voltage		100 - 240 V~, 50 - 60 Hz	
Temperature / Humidity	Operation		0 - 40 °C / 10 - 85 %, not condensing	
	Stock		0 - 60 °C / 20 - 80 %, not condensing	
	Transport		-25 - 60 °C / 20 - 80 %, not condensing	
Approvals			CE, FCC Class A, ICES-3	
	in preparation		cULus, CB	
Protection class			IP 40	
Operation panel	LED buttons		ON, FEED	
LCD graphics display	Width x Height	mm	54 x 70	
Monitoring			Pre-warning to end of label web, end of label web, label web broken Torque, temperature, power supplies	

¹⁾ Limitations can occur when processing small labels, thin materials or materials using a strong adhesive. Critical applications need testing.



1 Mains switch Cold appliance socket

2 2x USB hosts for warning light, external operation panel, USB stick and USB WLAN stick

3 Ethernet TCP/IP data transmission

4 START Start signal, for example with product sensor

5 SYNC Synchronization of the labels to the product speed with the encoder

7 PRINT & APPLY Peripheral interface for printer and transfer unit, e.g. solenoid valve

8 STOP for label sensor inductive or optional transmitted light

6 I/O interface

conform to IEC/EN 61131-2, Type 1+3; all inputs and outputs are protect from reverse polarity. The outputs are also short-circuit-proof.

Digital inputs

Label dispenser ON
Pre-dispense
Start labeling
Start labeling locked
Error reset
User-defined

Analog inputs

Speed
Start delay
Stop delay

Digital outputs PNP

Unit ready
Pre-dispense
Stop label feed
Label feed running
Label missing on liner tape
End of label web
Pre-warning to end of label web
Error
User-defined



Additional options to the label dispenser

4.1, 4.2



Peel-off plate standard

provided in lengths of 100 mm



pictured with a label sensor CEON

4.4, 4.5



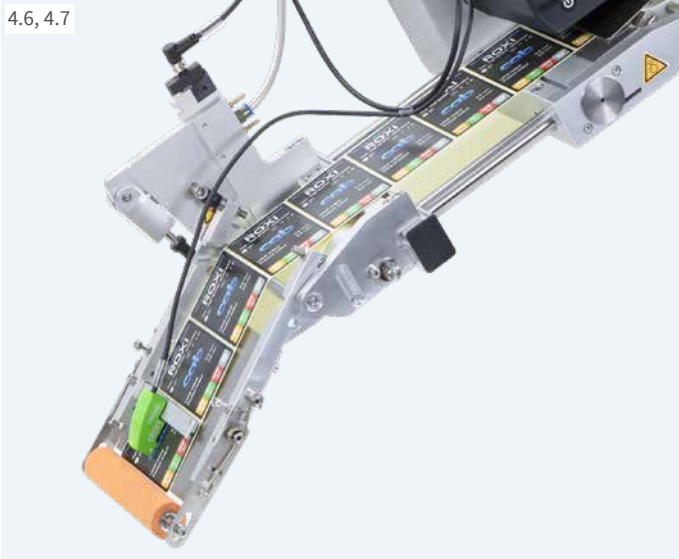
Peel-off plate 0° to 90°

The dispensing plate is angled at 75° for vertical assembly.



pictured with a label sensor CEON

4.6, 4.7



Peel-off plate 0° to -30°

Swinging downwards pneumatically by up to -30°. Uneven products can be labeled and labels be dispensed into pockets.



pictured with a label sensor CEON

6.1



Label sensor CEON

to detect and exactly position all conventional (even particularly thin, transparent or metallized) label materials.

Retainer bar to assemble the label sensor CEON on the peel-off plates

Sensor distance to the locating edge from 9 to 80 mm

Length of connection cable 450 mm

- easy to assemble
- precise detection
- high repeat accuracy
- comfortable AutoTeach sensor balance

6.2



Forked light barrier

to detect translucent labels with transparent or semi-transparent liner tapes; optical operation principle (transmitted light)

Retainer to assemble the forked light barrier on the assembly rods

Sensor distance to the locating edge 8 mm

Height of material passage 2 mm

5












Assembly rod

to assemble the peel-off plates on the label dispenser

Distance peel-off plate to label dispenser standard 100 mm, optional 25, 200, 300 or 400 mm, intermediate lengths on request

Accessories

<p>8.1</p>  <p>8.2</p> 	<p>Product sensor to trigger the labeling process as soon as the product has been detected. The maximum scanning range standard is 200 mm, with connecting cable M12-M8, 4 pin, a-coded, length 2.5 m</p>
<p>9.1</p>  <p>9.2</p>  <p>9.3</p> 	<p>Rotary encoder incremental, resolution 0.1 mm with connecting cable M12, 5 pin, a-coded, lengths 2.5 m A and B tracked to automatically synchronize the labeling speed, with MS software key</p> <p>Friction wheel, circumference 200 mm</p> <p>The retainer is used to press the friction wheel onto the conveyor belt in a spring-mounted manner. To assemble on a conveyor belt, a mounting bracket is required.</p>
<p>11.1</p> 	<p>I/O interface cable wire-end-ferruled M12, 17 pin, lengths 5 m</p>

<p>15</p> 	<p>Warning light to connect to the label dispenser</p> <p>Red Group error, e. g. end of label web, label web broken</p> <p>Yellow Pre-warning to end of label web</p> <p>Green Device ready</p> <p>With connecting cable USB; length 1 m</p>
<p>16.1</p> 	<p>External operation panel providing the same functionality as on the label dispenser</p> <p>Users are free to choose whether to operate the label dispenser on the external panel or on the one integrated in the device.</p> <p>1 USB slot, in order to transfer configuration data or the firmware</p> <p>2 LED: Power ON</p>
<p>16.2</p> 	<p>Connecting USB cable Lengths are 1.8, 3 and 5 m, Lengths 11 and 16 m on request</p>

Assembly aids



to assemble the label dispenser customer-specifically in production lines or integrate it in labeling machines. At this, a construction kit is provided, including device retainers, column stands and floor stands.

Assembly aids

Device retainers

The label dispenser is mounted on two columns and can therefore be installed either vertically or horizontally.

The dispensing angle can be adjusted using a tie rod. The dispensing position on the columns can also be moved.

The upper column is mounted to the tie rod. The lower one together with the bearing bush is mounted on a plate, a profile or on the column stand. The tie rod is swivel-mounted and is fixed with a clamping screw. Alternatively, the two columns can be mounted directly on a plate or profile. The dispensing angle (inclination) is not adjustable.

Technical data		Device retainer fixed	Device retainer moveable	Device retainer precisely adjustable
Orientation of assembly	vertical	■	■	■
	horizontal	■	-	■
axial	moveable	-	■	-
	precisely adjustable	-	-	■
Adjustable range		-	200 mm	135 mm

Column stand 600

to assemble the label dispenser to a base plate or a conveyor belt. Position is set with the help of a hand crank.

Technical data		Column stand 600
Column length	mm	600
Adjustable track	mm	395
Column diameter	mm	30

22.1



Floor stand 1632

primarily for labeling from the top on a product. It is moveable. On site, locking and setting is possible with the help of leveling feet. Preferred use is with applications in various production lines



Technical data		Floor stand 1632
Leveling feet, adjustability	mm	± 15
Load	up to kg	50
Load at protrusion 300 mm	up to kg	25
Distance from lower label margin to the floor	mm	880 - 1,200
Column stand	mm	800
Adjustable track	mm	595
Weight	approx. kg	40

22.2












Delivery program

Label dispensers L/R

Pos.		Part no.	Designation
1.1		6130120	ROXI label dispenser 120 L
1.2		6130180	ROXI label dispenser 180 L
1.3		6130125	ROXI label dispenser 120 R
1.4		6130185	ROXI label dispenser 180 R






xxxxxxx.250 if label dispenser provides additional options

Additional options for label dispensers







Pos.		Part no.	Designation
4.1		6130296.xxx	Peel-off plate 120 L
		6130297.xxx	Peel-off plate 180 L
4.2		6130306.xxx	Peel-off plate 120 R
		6130307.xxx	Peel-off plate 180 R
4.3		6130298.xxx	Peel-off plate 120 L firmly angled 75°
		6130299.xxx	Peel-off plate 180 L firmly angled 75°
4.4		6130308.xxx	Peel-off plate 120 R firmly angled 75°
		6130309	Peel-off plate 180 R firmly angled 75°
4.5		6130304.xxx	Peel-off plate 120 L pivotable by -30°
		6130305.xxx	Peel-off plate 180 L pivotable by -30°
4.6		6130310.xxx	Peel-off plate 120 R pivotable by -30°
		6130311.xxx	Peel-off plate 180 R pivotable by -30°
5		6120069.xxx	Mounting rod 25 mm
		5972418.xxx	Mounting rod 100 mm
		5972419.xxx	Mounting rod 200 mm
		5972420.xxx	Mounting rod 300 mm
		6120067.xxx	Mounting rod 400 mm
6.1		6130291.xxx	CEON label sensor, retainer bar included
6.2		6130292.xxx	Forked light barrier, retainer included

xxxxxxx.250 if label dispenser provides additional options

Accessories

Pos.		Part no.	Designation
8.1		6130294	Product sensor 200 mm maximum distance, connecting cable 2.5 m included
8.2			
9.1		6130293	Rotary encoder, connecting cable 2.5 m, friction wheel and retainer included
9.2			
9.3			
11.1		5918948	I/O interface cable, wire-end-ferruled M12, 17 pins, 5 m
15		6010560	Warning light, connecting USB cable 1 m included
16.1		6010186	External control panel
16.2		5907718.850	Connecting USB cable, 1.8 m
		5907730.850	Connecting USB cable, 3 m
		5907750.850	Connecting USB cable, 5 m
17.1		5955735	Unit L for compressed air regulation
17.2		5955736	Unit R for compressed air regulation

Tools for assembly

Pos.		Pos.	Designation
21.1		5983405	Unit retainer 120 fixed
		5983406	Unit retainer 180 fixed
21.2		5983409	Unit retainer 120 moveable
		5983410	Unit retainer 180 moveable
21.3		5983413	Unit retainer 120 precisely adjustable
		5983414	Unit retainer 180 precisely adjustable
21.4		5971614	Tie rod
22.1		5983421	Column stand 600 mm
22.2		5983425	1632 floor stand, column stand included

Overview of cab products

Label printers
MACH1, MACH2



Label printers
EOS 2



Label printers
EOS 5



Label printers
MACH 4S



Label printers
SQUIX 2



Label printers
SQUIX 4



Label printers
SQUIX 6.3



Label printers
SQUIX 8.3



Label printers
XD Q double-sided



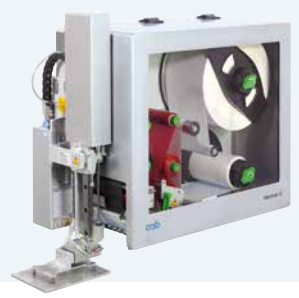
Label printers
XC Q two-colored



Print and apply systems
HERMES Q



Print and apply systems
Hermes C two-colored



Tube labeling systems
AXON 1



Print modules
PX Q



Labels and ribbons



Label software
cablabel S3



Label dispensers
HS, VS



Labeling heads
IXOR



Marking lasers
XENO 4



Laser marking systems



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