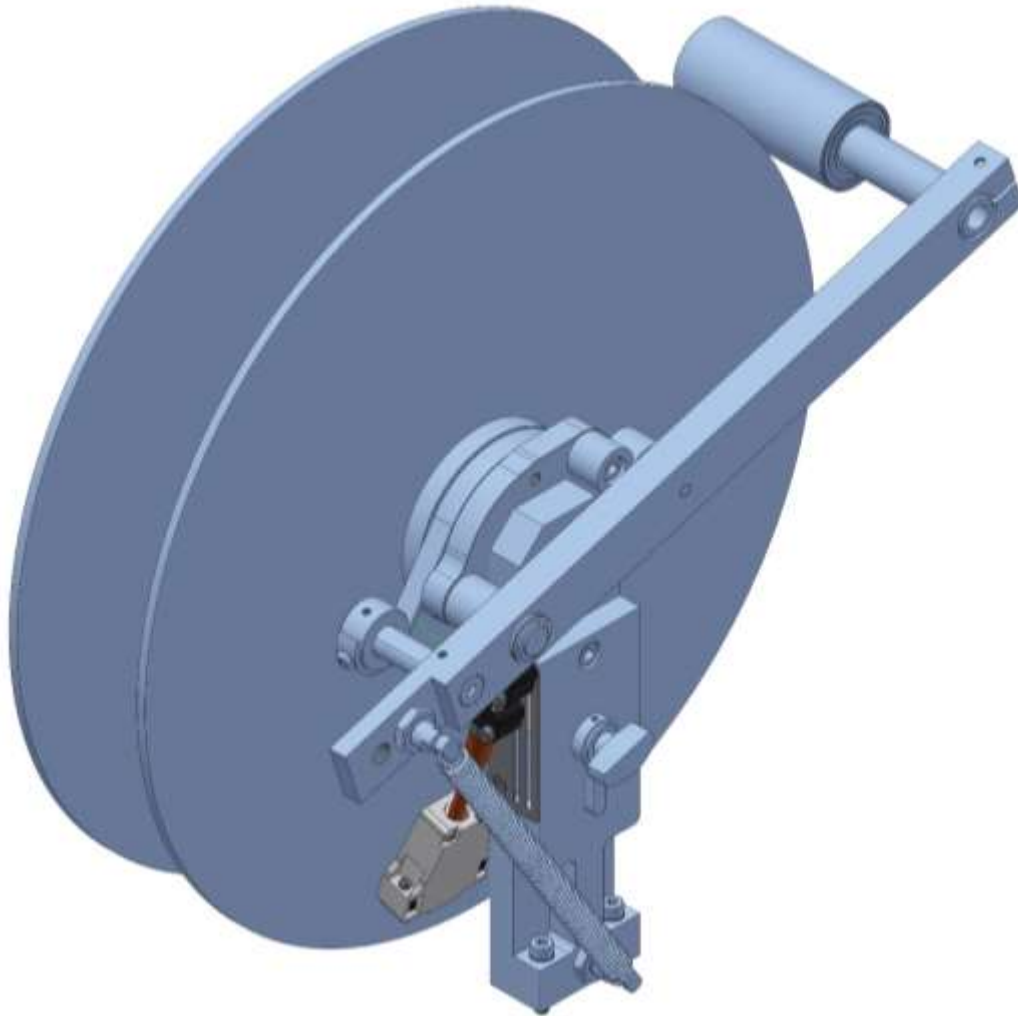


Label Prewarning

Part number 92.74.981



Usage

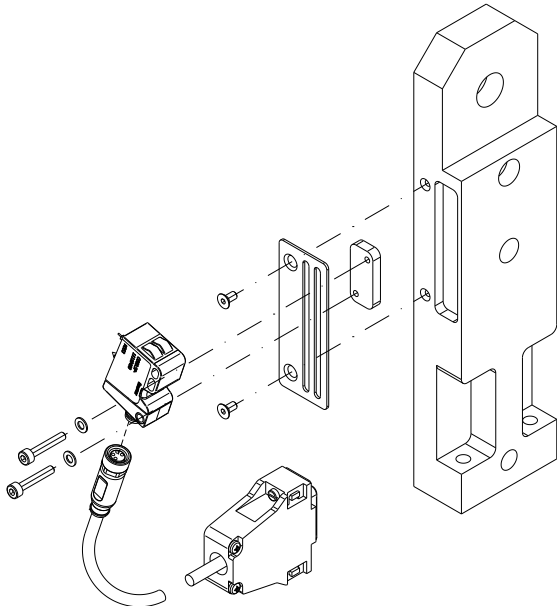
With the optional label prewarning, the early end of material will be displayed. Hereby the process of the print order is not immediately interrupted. The moment of prewarning can be set mechanically.

On reaching the prewarning diameter, the appropriate I/O output is set.

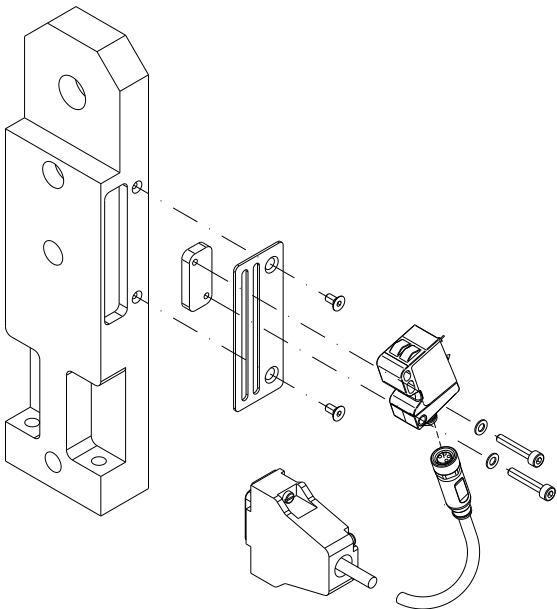
When using the optional signal lamp additionally the prewarning is optically presented.

Installation

The installation can be made directly at the optional label unwinder of ILX V.



right version

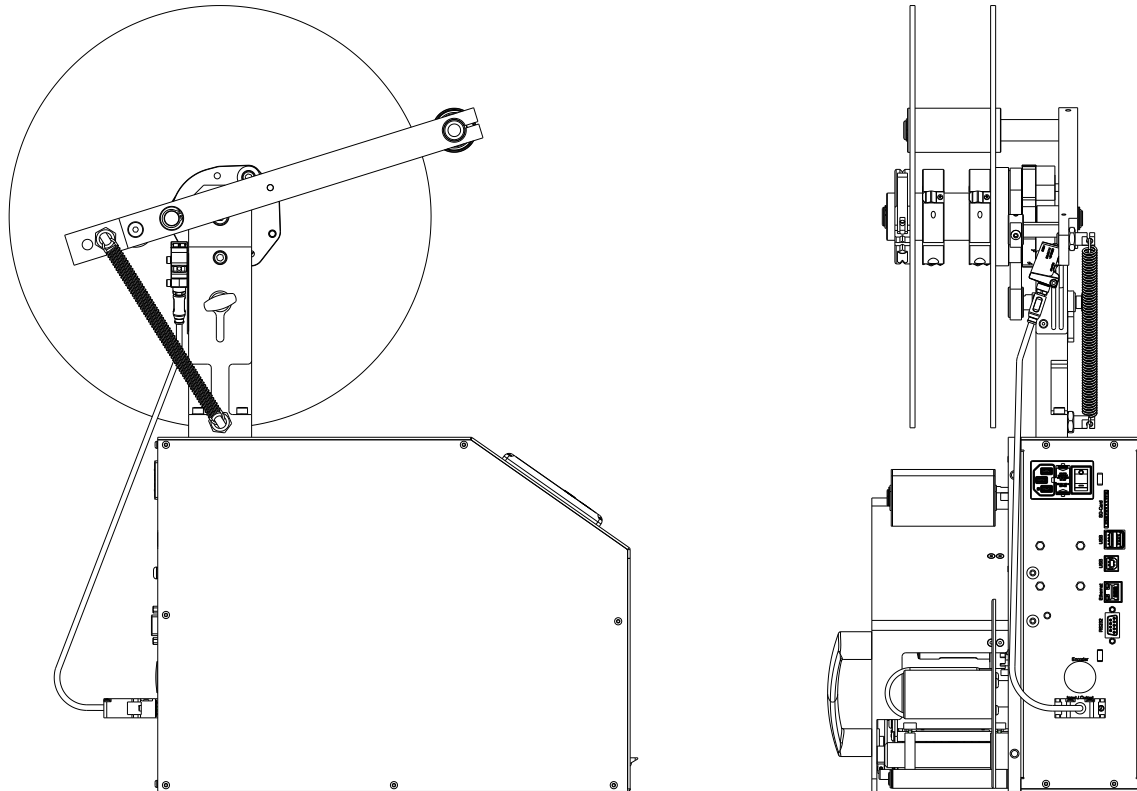


left version

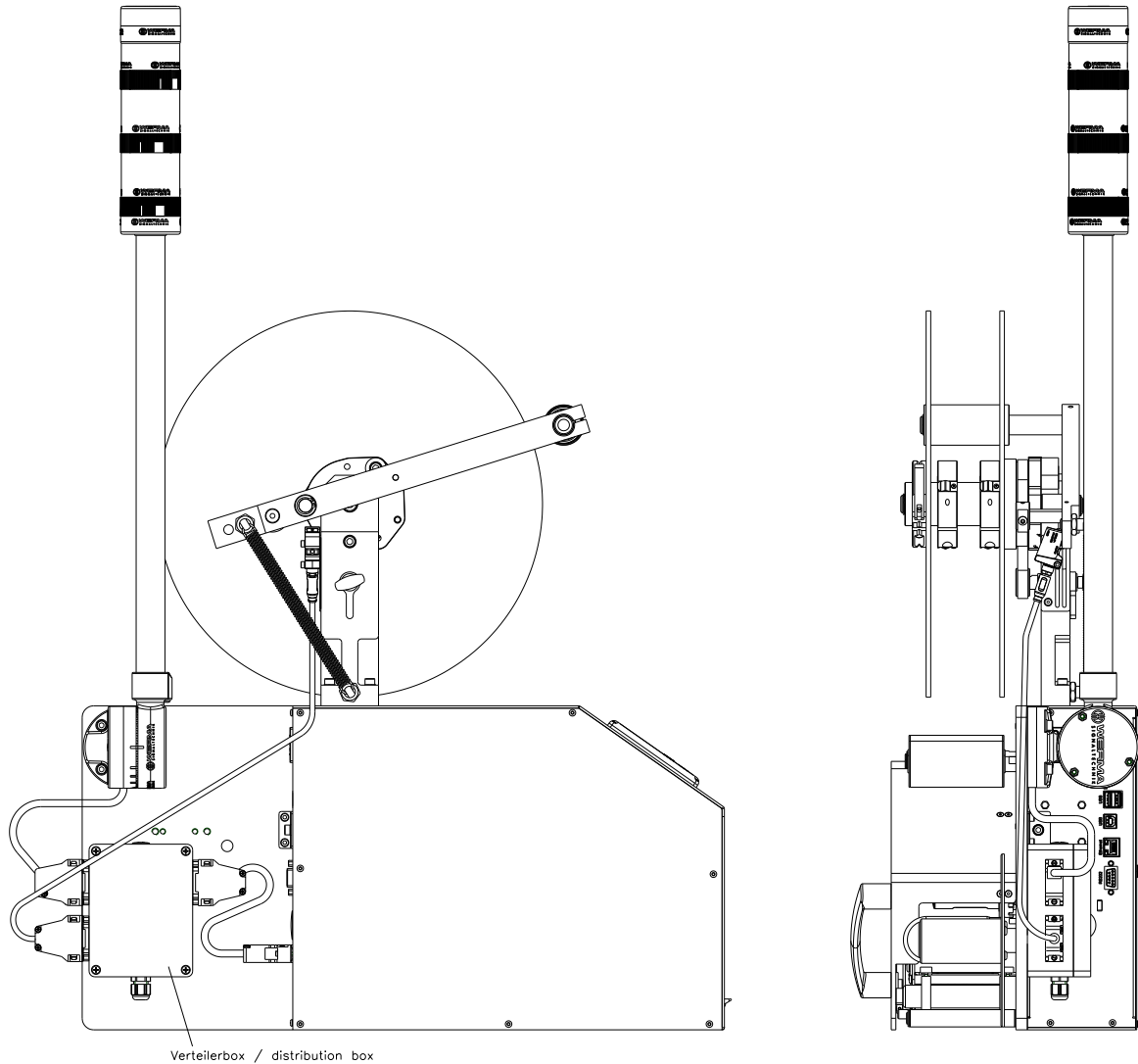
Connection

The connection is to be made at the existing 26 pin D-SUB socket of control inputs/outputs of ILX V. If further devices are to be connected at the printing system (e.g. product sensor, SPS, switch etc.), the connection must be done at the optional distribution box (part number 90.74.910E).

Connection directly at the ILX V



Connection via connection box



Wiring of Label Prewarning

26 pin D-SUB HD	Wire color	4 pin round plug	Function sensor
Pin 26	brown	Pin 1	24V
Pin 24	white	Pin 2	Teach-in
Pin 23	blue	Pin 3	0V
Pin 13	black	Pin 4	Output

Prewarning via Signal Lamp

The signal lamp (part number 90.74.920) shows the most important status information of ILX V.

Color	Meaning
red	Malfunction at the printing system or labeller
yellow	Prewarning end of label Prewarning end of ribbon
green	Ready for operation

Prewarning via I/O Interface

Messages to the prewarning can be transmitted via I/O interface to the superordinated control.

Name	Pin	Description / Function
Port 16	9	Prewarning end of labels Prewarning end of ribbon

Initial Operation of Label Prewarning



NOTICE!

The setting of sensor for the label prewarning is by default already configured. If there are any malfunctions, the sensor must be readjusted.

1. Insert the label material.
2. Switch on the printing system.
3. In order to teach the sensor on the label roll, a metallic tool is needed (e.g. Allen key, see Figure 1). Corresponding to Figure 1, hold the tool for two seconds at the qTeach sector, until the LED will start flashing.



Figure 1

- With the tool, brief touch the qTeach sector and wait until the green and yellow LED flash permanently (see Figure 2). The sensor is now ready for operation.

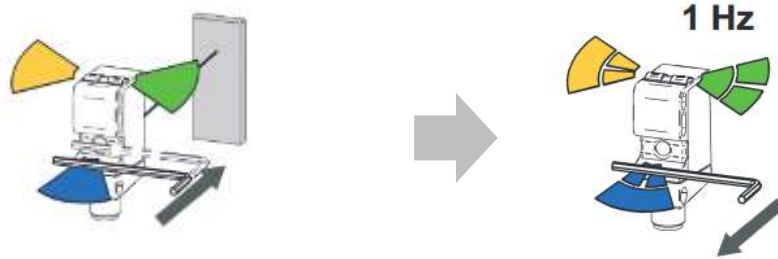








Figure 2



NOTICE!

If a sensor is taught to the label roll, this step must not be repeated if a new label roll is inserted.

- In the service menu of the printing system, release the I/O port for the sensor.
 Press the key **F** to access the function menu.
 Press the key  as long as you arrive the *Dispenser I/O* menu.
 Press the key  to select the menu.
 Press the key  as long as you arrive the submenu *I/O Port 1-8*.
 Press the key  to select Port 7 (see Figure 3).
 Press the keys   to select '&' (see Figure 4).

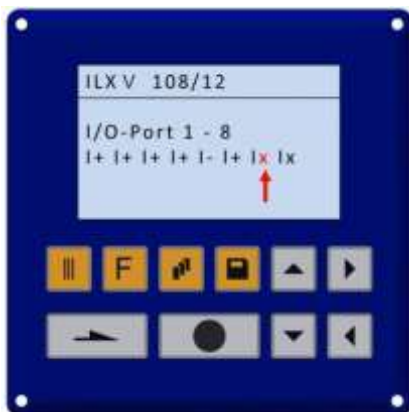


Figure 3

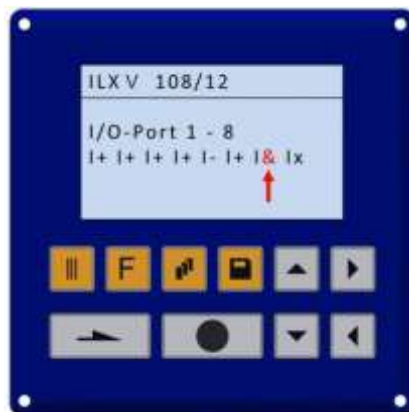


Figure 4

6. In the service menu of the printing system, verify the sensors.
 Press the key **F** to access the function menu.
 Press the key **→** as long as you arrive the Service Functions menu.
 Press the key **●** to select the menu.
 Press the key **→** as long as you arrive the submenu Input/Output.
 Press the key **▶** to select Port 7 (see Figure 3).
 Press the keys **▲ ▼** to select '&' (see Figure 4).

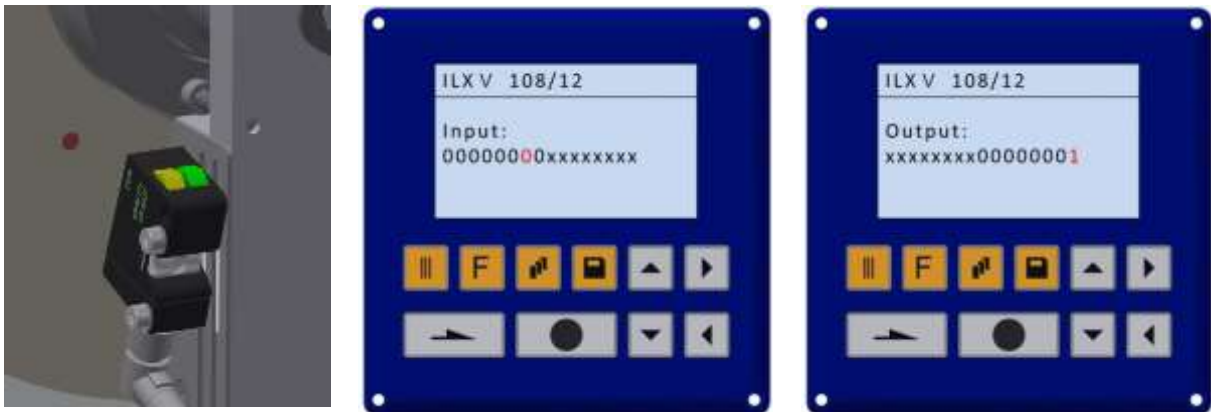


Figure 5

- Sensor recognizes the label roll (yellow and green LED light permanently)
Laser beam (red point) shows on the front surface of the full label roll.
- Input I₇ must show the value 0, otherwise the sensor must be inverted (see chapter Inverting the Sensor).
- Output O₁₆ is not active, as the sensor still recognized the label material.

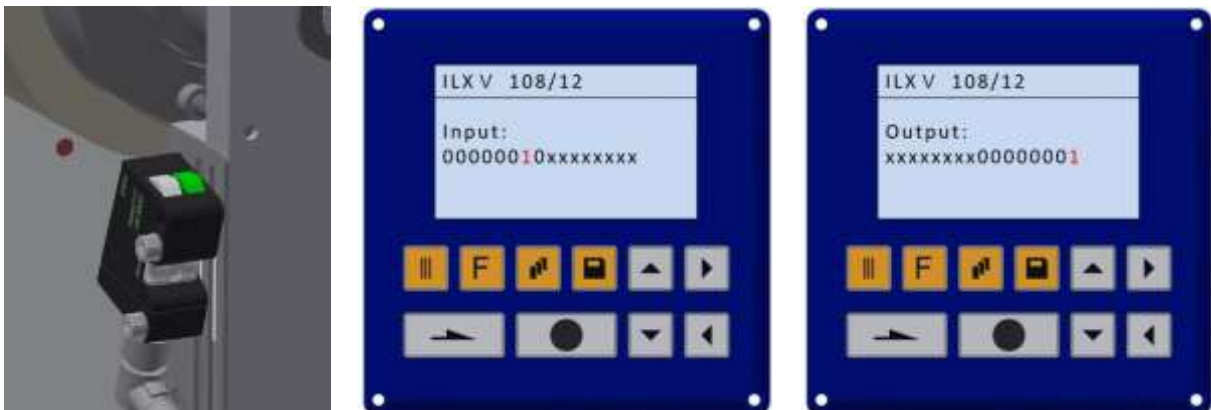


Figure 6

- Sensor no longer recognizes the label roll, as the laser beam (red point) no longer shown on the front surface of the label roll.
- Input I₇ must show the value 1.
- Output O₁₆ is now active → the optional signal lamp lights permanently.

Inverting the Sensor

After chapter *Initial Operation* of Label Prewarning, if Input I₇ should show the value 1, although the laser beam (red point) touches the full label roll, the sensor must be inverted. Please follow the steps:

1. Insert the label material.
2. Switch on the printing system.
3. In order to teach the sensor on the label roll, a metallic tool is needed (e.g. Allen key, see Figure 1). Corresponding to Figure 1, hold the tool for two seconds at the qTeach sector, until the LED will start flashing.
4. Then brief touch the qTeach sector with the tool until the LED will start flashing. With the tool, brief touch the qTeach sector and wait until the green and yellow LED flash permanently (see Figure 2). The sensor is now ready for operation.