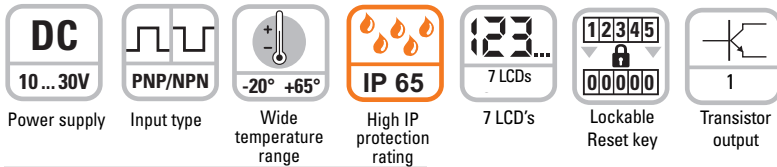


Counting technology

Standard and Service counters

LCD counters **CODIX 140/142**



CODIX 140: Standard counter
CODIX 142: Service counter

User-friendly:

- Power supply 10 ... 30 V DC
- Values stored in EEPROM
- Fixed pre-programmed service intervals
 e. g.: Service at 5000 (Service)
 Pre-signal at 4900 (Pre-service)
 Blinking text message on the display (Service or Pre-service)
- Multifunctional Reset key, lockable by a separate input
- The device can also be reset to its delivery condition



Simple:

- Fast PNP or damped NPN, Control via separate inputs
- No programming required

Functional:

- Direct display of the total number of pulses
- Pressing the key displays the preset service value and its pre-signal
- Preset value output in form of a text on the display and on the transistor output
- Pre-signal for the service intervals in form of a text on the display
- Manual or electrical reset of the display or of the service intervals

| | |
|-------------------------|---|
| Power supply: | 10 ... 30 V DC, max. 25 mA |
| Display: | LCD, 7 digits, height of the figures 8 mm |
| Counting range: | 0 ... 9999999, no decimal point |
| Data backup: | EEPROM |
| Start delay: | 500 ms |
| Inputs: | |
| Counting input A: | Fast input, PNP switching (max. 8 kHz) |
| Counting input B: | Slow input, NPN switching (mechanical contact, max. 48 Hz) |
| Reset key enable input: | Static NPN input |
| Reset: | Edge-triggered NPN input (min. 20 ms) |
| Input resistance: | 10 kOhm |
| Switching level: | Low 0 ... 2 V DC High 3,5 ... 30 V DC Switching threshold approx. 2.7 V |
| Scaling: | 1 ... 4095 (factory-set) |
| Operating temperature: | -20 ... +65 °C |
| Storage temperature: | -25 ... +75 °C |

| | |
|--|--|
| Weight: | 40 g |
| EMC: | Interference emission EN55011 Class B Immunity to interference EN61000-6-2 |
| Connections: | 8-pole screw terminals, pitch 5.08 mm |
| Housing: | Front panel mount DIN 43700, 48 x 24 , dark grey, Ral 7021 |
| Protection: | IP65 on the front, IP20 on the back |
| Cleaning: | The front side may only be cleaned using a soft cloth moistened with water |
| Shock resistance: | EN 60068-2-27: 100G EN 60068-2-29: 10G |
| Vibration resistance: | EN 60068-2-6: 10 ... 55 Hz/1 mm/30 min. |
| Additional data for CODIX 142 (Service counter) | |
| Output: | NPN transistor output, Open Collector Max. output voltage 30 V DC Max. output current 50 mA |

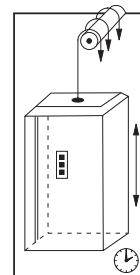
Display and inquiry mode - Service counter

If the Reset key is not released by means of the activation input of pin 6, pressing the key makes the following functions available to the user.

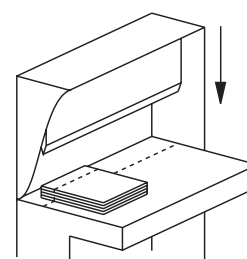
- Press 1x: The text "SErViCE" is displayed
- Press 2x: The following Service value is displayed
- Press 3x: The text "PrESErV" is displayed
- Press 4x: The following Preservice-Wert is displayed
- Press 5x: The current value is displayed

For the service counters, the values counted remain stored, the service values are incremented by the stored preset value when resetting. E.g. service value 5000 pulses, counter count when resetting 5100 pulses, new service value 10100.

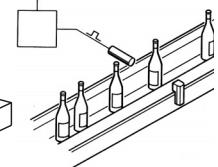
Applications:



Ride counting and service intervals



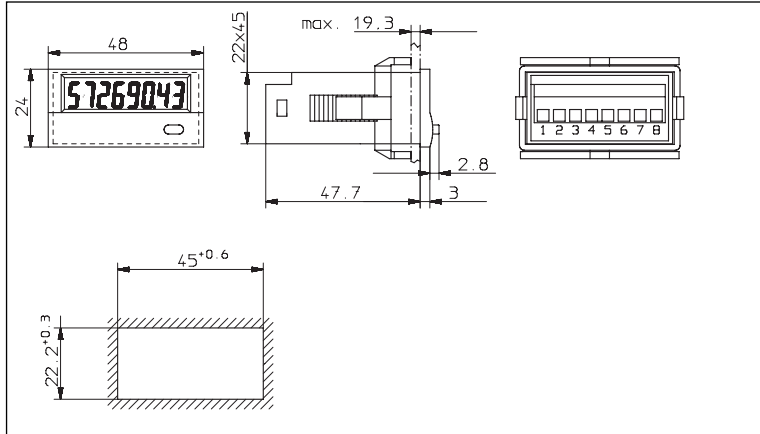
Number of cuts and knife replacement



Total quantity and service interval

LCD counters **CODIX 140/142**

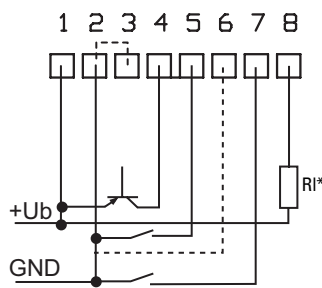
Dimensions:



Delivery specification:

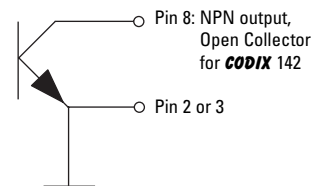
Counter
 Mounting clip
 Gaskets, adapter front bezel
 Multilingual operating instructions

Connections:



*Output 8 is only used with **CODIX 142** as a NPN output

| Pin | Description | Standard counter | Service counter |
|---------------------|---------------------|---------------------|---------------------|
| Power supply | | | |
| 1 | +Ub | 10 ... 30 V DC | 10 ... 30 V DC |
| 2 | 0 V DC, GND | GND | GND |
| Inputs | | | |
| 3 | 0 V DC, GND | GND | GND |
| 4 | Fast counting input | INP PNP | INP PNP |
| 5 | Slow counting input | INP NPN | INP NPN |
| 6 | Reset enable input | MANUAL RESET ENABLE | MANUAL RESET ENABLE |
| 7 | Reset input | RESET | RESET |
| Output | | | |
| 8 | NPN Output | n.c. | OUT |



Order code - Standard counter:

6.140.012.300.0001

Option 1*

Scale divisor 2 ... 4095
 If divisor is 1 then omit last
 4 digits from code

Order code - Service counter:

6.142.011.300.005K.00.0001

Option 1*

Scale divisor 2 ... 4095
 If divisor is 1 then omit last
 4 digits from code

Option 2*

00 = Pre-warning at 100
 before the preset
 service value,
 PrESErV and SErViCE

Option 3*

Service preset value
 005K => 5000

*Attention: the following order code is only an example. The option 1 - 3 can be programmed according to customer needs.

Note: The minimum order quantity for customer-specified options is 500 pieces.