# Counter/Preset Counter

## DAG-Z2


- Counter/Preset Counter in 74 x 32 mm format
- Universal AC/DC power supply
- Input frequency up to 100 kHz
- 2-line LED display
- Easy programming by front keys or software
- Two relay outputs



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## Description

The compact small counter DAG-Z2F80W2 can be set in two different modes: Single or Double counter, all with independent setting. 3 universal digital inputs are available (NPN/PNP/TTL) can be used for bi-directional encoders reading, UP/DOWN counter function, LOCK/HOLD to lock or hold current visualization. One input is also analogue in order to allow setpoint modification by an external potentiometer. Due to the two different modes and the scaling features, the counter is usable for a lot of different applications. In addition to an excellent cost effectiveness and high quality, the counter offers a rugged, compact housing and a brilliant display.

## Technical Data

Display: 2-line LED-display

- Upper line: Counting value, 4-digit, green with 10.2 mm digits
- Lower line: Setpoint, 4-digit, red with 7.6 mm digits

Indicators: Two red indicators for status relays outputs and a yellow indicator for serial communication

- 1, 2: AN, when output active

Buttons: 4 front keys for programming and setting up the setpoints

Inputs: Three digital inputs can be configured as PNP, NPN or TTL. Programmable thresholds for activation as a high / low active active / rising edge or level triggered.

| Input signal / Logic level | NPN | PNP | TTL |
|---|---|---|---|
| High | < 4.7 V | > 5.7 V (I1,I2)<br>>12.4 V (I3) | > 2.5 V |
| Low | > 5.7 V | < 4.7 V (I1, I2)<br>< 10.2 V (I3) | < 2.0 V |

Input I3 can also be used for connection of a potentiometer (0 ... 5/10 kΩ) for setting the nominal value (resolution: 1000 steps)

Function of inputs: Counting direction, stop, hold, wait, setpoint input (I3)

Input frequency: Min. 1 Hz to max. 100 kHz

Relay output: 1 change-over relay with 5 A @ 250 $V_{AC}$ and 1 closing contact with 5 A @ 250 $V_{AC}$

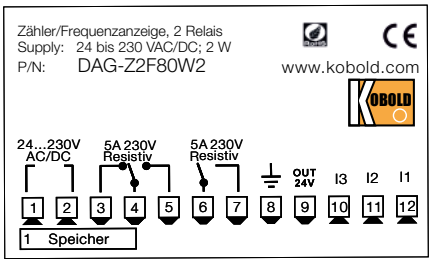
Excitation: 24 $V_{DC}$
- 30 mA (24 $V_{AC}$ power supply)
- 40 mA (24 $V_{DC}$ power supply)
- 60 mA (110 ... 230 $V_{AC}$ power supply)

Supply: 24 $V_{AC/DC}$ ... 230 $V_{AC/DC}$ +/-15 %, 50/60 Hz; 2 W

Data security: Password-protected access to setpoint, alarm values and parameters

Programming: Programming and operation is menu-guided via the front keys

Wiring plan:




Protection class: IP65 from the front (with rubber sealing), back plane IP20

Housing: Black and robust plastic case

Dimensions: W 77 mm x H 35 mm x D 53 mm, panel cut out 28.5 mm x 70.5 mm

Connection: Via screw terminal

Ambient conditions: Operating temperature: 0 °C ... +45 °C; relative humidity 35% ... 95% rF, non condensing

Weight: Approximately 100 g

**Order Details** (Example: **DAG-Z2 F 8 0 W 2**)

| Model | Version | Input | Supply | Output | Sensor supply/ digital input | Relay |
|---|---|---|---|---|---|---|
| **DAG-** | **Z2** = counter 4-digit, 74×32 mm | **F** = digital input PNP, NPN, TTL | **8** = 24 ... 230 $V_{AC/DC}$ | **0** = without | **W** = with sensor supply 24 $V_{DC}$ | **2** = 1 change-over relay 1 closing contact |



No responsibility taken for errors; subject to change without prior notice.

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