



FACTORY AUTOMATION

COUNT – DISPLAY – CONTROL ...

ON SITE FLEXIBILITY, WITH EVERYTHING TO HAND



When an object is detected - things really start to happen!

Sensors in production and process technology provide a multitude of information for automation. Frequently, this information has to be displayed on site with good clarity, or processed further and used for direct control of the process. In helping you to optimally solve these problems, we offer a wide range of indicators, counters, tachometers and other secondary switching devices, specifically intended for application in conjunction with sensors.

DIGITAL PROCESS INDICATORS

... frequently find application for the conversion of analogue signals into rotational speeds, velocities, levels and distances. The DA5 Process Indicator and Control Device is also used for the indication of pressure, temperature, voltage and current. This product features a specially bright LED display for good visibility on site, with 14.2 mm high digits. The large operating buttons are another plus point - these are ideal for industrial applications!

Features DA5-IU-2K-...:

- ➔ Super-bright, five-digit LED display (with 14.2 mm high digits)
- ➔ 2 relays for 2 preselections
- ➔ Programmable characteristic
- ➔ Simple operation
- ➔ Auxiliary power output for sensors:
24 V/100 mA
- ➔ 24 V DC and 230 V AC version
- ➔ Frontal dimensions: 96 mm x 48 mm

DA5-IU-2K-V
DA5-IU-2K-C



DA5-IU-C



Features DA5-IU-C:

- ➔ Five-digit LED display (with 8 mm high digits)
- ➔ Min/Max evaluation
- ➔ Scalable characteristic
- ➔ 24 V DC version
- ➔ Frontal dimensions:
48 mm x 24 mm



MULTI-FUNCTION

COUNTER-TACHO-TIMER

... you can cover three applications with one unit:

Count, measure frequencies and record times.

The clear, menu-driven operation makes all the setting functions straightforward and reliable. In fact, these combined functions

enable you to control and check your process sequences decentrally and intelligently. In addition,

you save costs on wiring and the transmission rate of your PLC is not affected. With our KCN and KCT Series in 3 sizes, with which you can interface proximity switches and rotary encoders, you always have precisely the right equipment for your application.

The **KCN Series** has a two-line LCD display for the indication of the preselected value, the actual value and the active output. The background illumination provides clear readability in all applications.



Devices with one preselection:

KCN1-6SR-V (with relay)
KCN1-6SR-C (with relay)
KCN1-6ST-V (with transistor)
KCN1-6ST-C (with transistor)

Devices with two preselections:

KCN1-6WR-V (with relay)
KCN1-6WR-C (with relay)
KCN1-6WT-V (with transistor)
KCN1-6WT-C (with transistor)

ELECTROMECHANICAL COUNTERS

... are used in particular, for the control of batch quantities or throughputs. But they also frequently find application in support of the reporting function on operating processes, and as a cost-effective summing device.

Features of the KCM Series:

- ➔ Optically large digital presentation
- ➔ With and without reset function
- ➔ 24 V DC/230 V AC versions
- ➔ Frontal dimensions:
 32 mm x 15 mm or
 48 mm x 24 mm



KCM-51-C
KCM-51-V



KCM-70A-C
KCM-70A-V



KCM-70-C
KCM-70-V



KCT2-6ST-V



The **KCT Series** offers a super-bright LED indicator with 8 mm or 14 mm digit height, which can be seen extremely clearly from many metres away and over a reading angle of 150°. The display can be easily switched between preselected value and actual value.

KCT-6S-C
KCT-6ST-C



KCT1-5SR-V
KCT1-6SR-C
KCT1-6SR-V



Features of the KCN and KCT Series

- Counter, Tachometer and Timer functions
- Up to 2 preselected values can be set
- Transistor or relay outputs
- 24 V DC and 230 V AC versions
- Scaling factor
- Inputs can be selected as npn or pnp
- Programmable operating modes
- Menu driven operation
- Auxiliary power output for sensors: 24 V/80 mA
- Front dimensions: 48 mm x 24 mm/48 mm x 48 mm
96 mm x 48 mm



SIMPLE PORTABLE COUNTING AND CONTROL

... with the battery-operated counters of the **KCY Series**. A guaranteed life of 10 years means that you don't have to worry about disposal over this period and for process security, a warning message is output in good time when battery replacement is required. The preselected settings for each position can be made within seconds by means of the respective buttons on the front panel - the staggered buttons can be operated even when working gloves are worn. Save time and procurement costs!

Features of the KCY Series:

- Battery operation
- Addition/subtraction
- Decimal point setting
- 1 preselection with relay output
- Front dimensions:
48 mm x 48 mm



KCY1-6SR-B

SPEED MONITORS

... are used to monitor the rotational speed of motors and process cycle times, for example when there is a requirement to indicate critical speeds or limiting frequencies. So you can now avoid the possibility of damage due to rapid engagement. You have the choice between a device suitable for the control cabinet or a speed monitor that is integrated in the VariKont sensor housing.

KHU8 features:

- ➔ Counting frequency up to 5 kHz
- ➔ Indication in 1/sec or 1/min
- ➔ Start-up override time
- ➔ Housing for top hat rail mounting: 60 mm x 70 mm x 110 mm

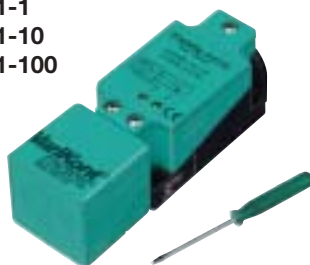


KHU8-DW-1.D

Integrated speed monitor in the VariKont housing:

- ➔ Start-up override time
- ➔ Counting frequency up to 100 Hz
- ➔ Limiting frequency adjustable via potentiometer
- ➔ Dimensions: 40 mm x 40 mm x 118 mm

NJ15+U1+DW1-1
NJ15+U1+DW1-10
NJ15+U1+DW1-100



Standstill monitor with rotation direction monitoring

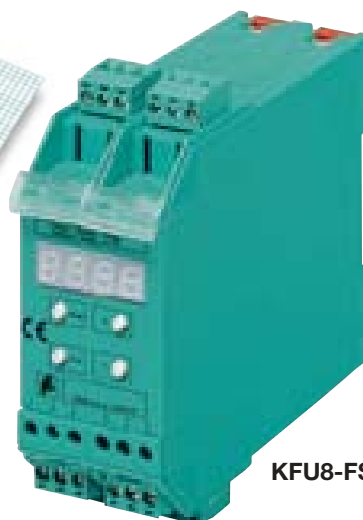
- ➔ Limiting frequency 0.1 Hz ... 10 Hz
- ➔ Start-up override 5 sec ... 20 sec
- ➔ Rotation direction monitoring with 2. input
- ➔ 2 output relays pnp, changeover contact
- ➔ Removable terminals
- ➔ Connection of NAMUR sensors and 3-wire sensors with external supply



FREQUENCY-CURRENT-VOLTAGE CONVERTERS

... are capable of indicating the periodic signals that occur in almost all branches of automation technology and of monitoring them to suit your requirements. The input pulse sequence is evaluated by measuring the period of oscillation and this is converted to an analogue value of current or voltage.

- ➔ Simple parameter assignment
- ➔ Counting frequency up to 10 kHz
- ➔ Indication in 1/sec or 1/min
- ➔ Scaling factor
- ➔ Connection of proximity switches (including NAMUR) and incremental rotary encoders
- ➔ Multi-range power unit for 24 V DC, 110 V AC and 230 V AC
- ➔ Auxiliary power output for sensors
- ➔ Housings for top hat rail mounting: 60 mm x 70 mm x 110 mm



KFU8-FSSP-1.D

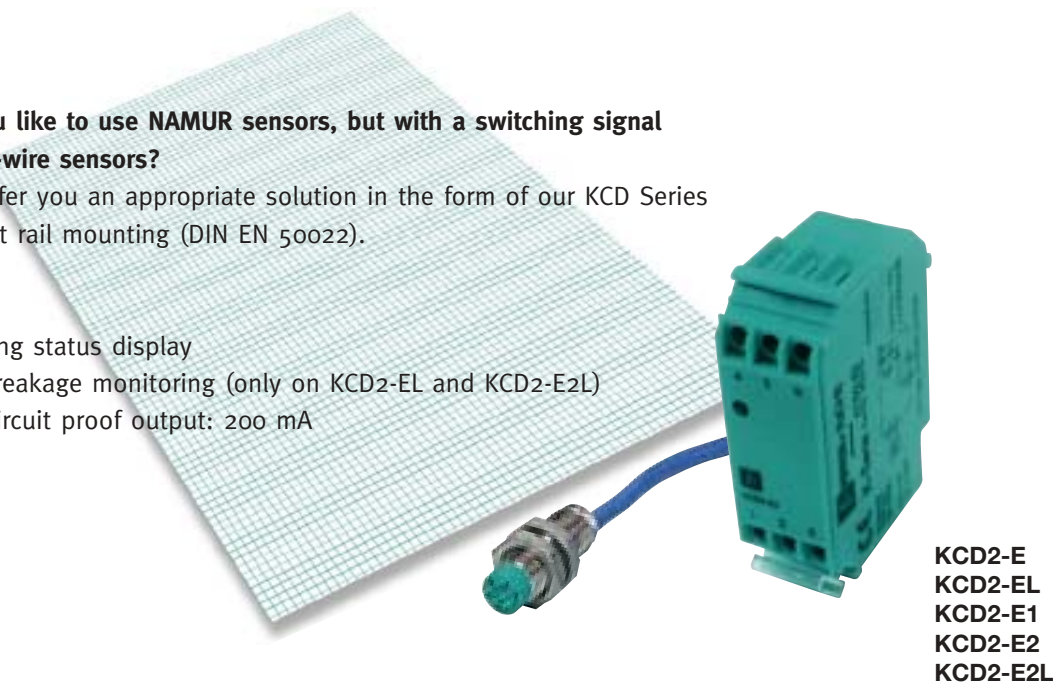
SENSOR-INTERFACE MODULES

Would you like to use NAMUR sensors, but with a switching signal like the 3-wire sensors?

We can offer you an appropriate solution in the form of our KCD Series for top hat rail mounting (DIN EN 50022).

Features:

- ➔ Switching status display
- ➔ Lead breakage monitoring (only on KCD2-EL and KCD2-E2L)
- ➔ Short-circuit proof output: 200 mA

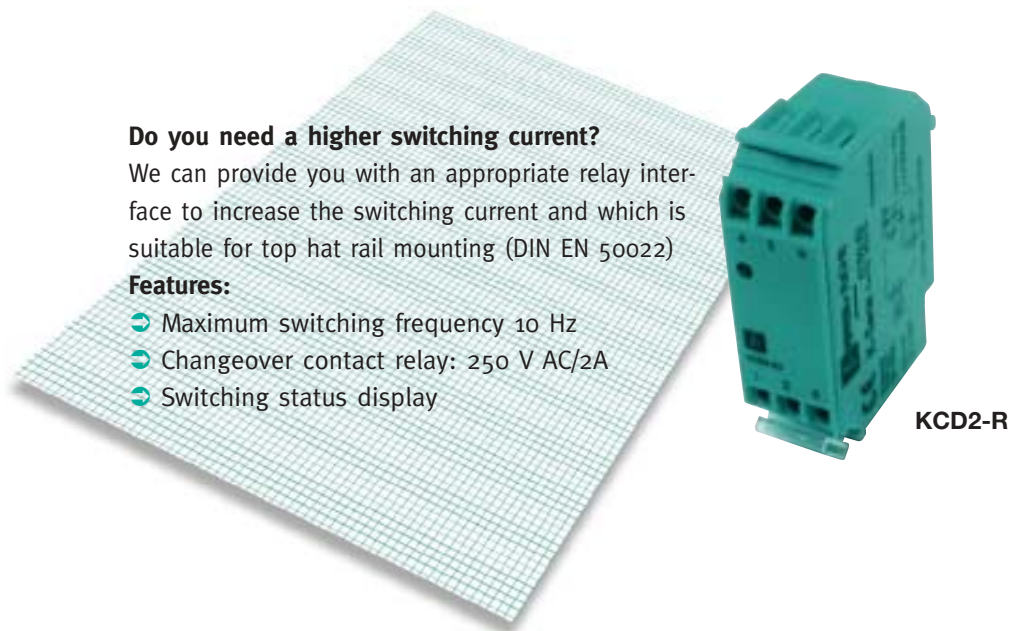


Do you need a higher switching current?

We can provide you with an appropriate relay interface to increase the switching current and which is suitable for top hat rail mounting (DIN EN 50022)

Features:

- ➔ Maximum switching frequency 10 Hz
- ➔ Changeover contact relay: 250 V AC/2A
- ➔ Switching status display



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