

# Export news February 2018

## Three devices, many functions: Transform your sensors into rotation speed monitors, interval counters and much more

First we would like to draw your attention to an article that has been in our program for a long time, but is now available for a lower price: It deals with the [VY200120](#), a connection piece with M12-socket and M12-connector. This can be plugged and screwed between a sensor (PNP, NO) and a cable socket to enable an **on or off delay**.

For this function, you need a 4-wire cable socket. The white wire is the teach-wire and is therefore connected with +U<sub>B</sub> with an on delay of 4 seconds.

For a pulse stretching or off delay, the teaching procedure is performed as follows:

Damp the sensor, connect white and brown, release the damping for the desired time, then damp it again und release the teach-connection. The price for you as distributors amounts to 41.25€ now.



VY200120

The two other devices are optically identical, but have different functions.

The [CI200120](#) is a **pulse divider** and you can use it as **pulse counter** as well as **interval counter**.

The [WS200120](#), however, is a **rotation speed monitor**. More and more often, there is a demand for inductive sensors that are also able to monitor rotation speed. With this device, you can transform every sensor into a rotation speed monitor. You need single pulses, of course, which can be generated by a fan impeller for instance. Once set to nominal rotation speed, you connect the teach-wire to +U<sub>B</sub>. After the connection has been disconnected, the monitoring is performed in a way that the switching output is set as soon as the frequency falls below 5%. This is a simple and cheap replacement for the discontinued WS57 series.

For all devices applies the same: you get a lot of functions without any wiring effort or reprogramming. For further information, have a look at the manuals on our website.

## New low-cost diffuse-reflection laser sensor

We would like to present you our new diffuse reflection laser sensor [PTQ80376](#) with background suppression. This extremely small sensor provides a teachable sensing range of up to 70mm and has laser protection class 1, which is a great advantage.

Speaking of advantages, we would also like to mention the price: for you as distributors, the new PTQ8 amounts to 120.38€, which is very reasonable in comparison to other compact laser versions.

The switching point is adjusted via teach-in. There are three different teach modes, which are described in the manual.

The mounting brackets AO000075 and AO000076 will be sent from now on with two additional M3 nuts to mount this sensor. The PTQ80376 also fits to the universal holder AY000116.



PTQ80376

## Inductive high-temperature sensors with large switching distances

In order to realize very large switching distances also when it comes to high temperatures, our product range of inductive sensors was enlarged again.

In addition to the already known IN80A138 (80 round, Sn 50mm), which is able to operate with ambient temperatures of +120°C, we introduced the INKAE178 (105 round, Sn 80mm) and the INKFE179 (160 round, Sn110mm).

Here are the switching distances at a glance:

[IN80A138](#): 25 ... 70mm

[INKAE178](#): 45 ... 120mm

[INKFE179](#): 45 ... 150mm



IN80A138

In order to achieve these distances, correspondingly big targets are necessary, of course.

For sensitivity adjustment, all these three devices have a potentiometer, which is located behind the cover screw.

## The new switching power supply unit NG530020

As some of you may have recognized, the switching power supply unit NT550002 is no longer available. It has been replaced by the [NG530002](#), which we would like to present in the following.

Switching amplifiers are also known as contact protection relays. They are used for sensors or contacts with low current load, when higher voltages and currents have to be switched.

Typical application examples are, amongst others, machine switch-off by means of protective devices, dry-run protection for pumps and the switching of load relays or contactors.

By means of an integrated switching power supply, the mains voltage of 230V AC is converted to the output voltage of 24V DC. This is available as supply voltage at the designated terminals, e.g., for sensors. The switching signal of a connected sensor controls the relevant relay at the power supply unit. The switching status of the relay is displayed by a yellow LED.

It is possible to connect both PNP and NPN sensors.

Therefore, you have to appropriately position the jumper plugs on the internal circuit board.

The NG530002 has to be mounted on a 35mm standard rail. The connection terminals are designed for cables up to 2.5mm<sup>2</sup>.

