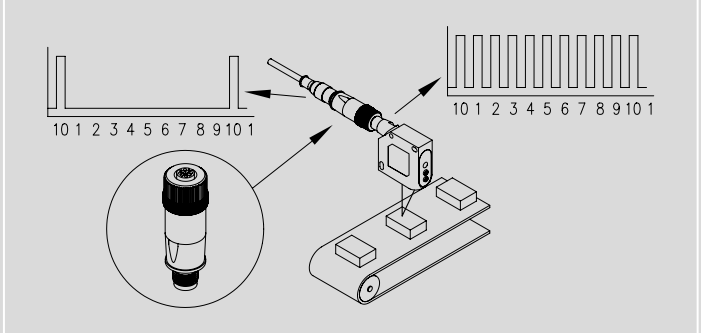
SmartPlug

System description

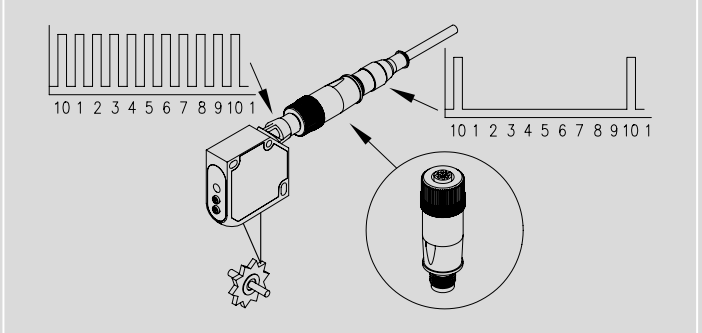
TYPICAL SENSOPART

- The smart solution for simple tasks
- Switching amplifier up to 400 mA
- Simple setting via external teach-in wire
- Compatible with all sensor producers
- Compatible with all methods of function: optic, ultrasonic, inductive, capazitive
- No supplementary installation required
- A product that evolved from practical use for practical use

SmartPlug MFC application:
counting parts in a container with the F 50
Switching takes place after every tenth object – a typical task in packaging.



SmartPlug MFC application:
counting gear teeth with the F 50
The rotations of a gearwheel can also be counted.



SmartPlug MFI 12 Inverter

Depending on the SmartPlug Type, the SmartPlug MFI 12 Inverter converts the signal of the connected sensor from PNP to NPN (MFI 12 PN4) or vice versa (MFI 12 NP4). The output function can also be switched via the control line (NO/NC).

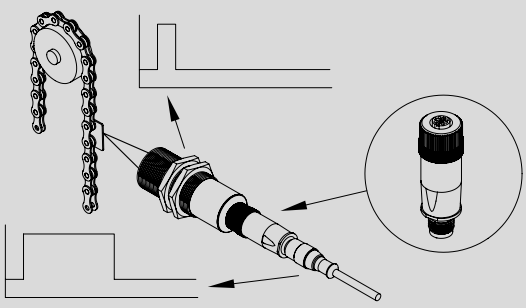
SmartPlug MFC 12 Counter

The SmartPlug MFC 12 Counter counts the output pulses of the connected sensor. The sensor's output pulse is switched through on reaching the preselected number. The preselected number can be set via teach-in.

SmartPlug MFT 12 Timer

The SmartPlug MFT 12 Timer supplements the connected sensor with the time function on-delay or drop-out delay. Both functions can be set via teach-in. The default setting is a drop-out delay of 100 ms. With this setting, the SmartPlug can be used directly for lengthening very short switching signals so they are suitable for PLCs.

SmartPlug MFT application:
chain detection with the FMS 30
The SmartPlug causes an on-delay or drop-out delay so that the PLC can evaluate the rapid movement of the chain.



SmartPlug MFF 12 Frequency Monitor

The SmartPlug MFF 12 monitors the frequency of the incoming signals. The SmartPlug's output is activated if the actual frequency falls below about 5% of the programmed level, and the sensor's signal is put through. Counting the input frequency on the SmartPlug; monitoring standstills; monitoring rotary speed; detecting accumulations.

SmartPlug MFW 12 Wipe Function

The SmartPlug MFW 12 Wipe Function reacts to the rising or falling edge (adjustable via external signal) of the input signal from the sensor and generates a switching pulse. The duration of the switching pulse, during which the SmartPlug holds the switching output of the signal, can be adjusted between 1 … 65535 ms.

SmartPlug MFU Universal

The all-rounder! Whether as a counter, inverter or timer, for monitoring frequency or for on-delay and drop-out delay – the SmartPlug MFU offers universal use compatible with all sensors from familiar producers, and communicates with a PC or notebook via an infrared interface. A USB adapter is available for simple programming via the notebook. All functions can be combined with one another. In addition to configuration, the user-friendly software allows reading out of the set values and the storage (and thus re-use) of settings already made.