

Smart data	MFU I2 P4 SmartPlug	MFU I2 N4 SmartPlug
	Multifunctional component with infrared interface. Can be freely configured with PDA (Palm) or notebook.	Multifunctional component with infrared interface. Can be freely configured with PDA (Palm) or notebook.
Minimum frequency:	0.015Hz	0.015 Hz
Maximum frequency:	8 kHz	8 kHz
Maximum output current:	400 mA	400 mA
	MFT I2 PP4 SmartPlug	MFT I2 NN4 SmartPlug
	Teachable time extension for N.C. sensors. Teachable rise and disconnection delay time.	Teachable time extension for N.O. sensors. Teachable rise and disconnection delay time.
Maximum input frequency:	10 kHz	10 kHz
Smallest time setting:	1 ms	1 ms
Greatest time setting:	65.535 ms	65.535 ms
Maximum output current:	400 mA	400 mA
	MFC I2 PP4 SmartPlug	MFC I2 NN4 SmartPlug
	Teachable counter for N.C. sensors. Teachable pulse and no-current counter.	Teachable counter for N.O. sensors. Teachable pulse and no-current counter.
Maximum input frequency:	10 kHz	10 kHz
Smallest pre-selected number:	1	1
Largest pre-selected number:	65.535	65.535
Maximum output current:	400 mA	400 mA
	MFI I2 PN4 SmartPlug	MFI I2 NP4 SmartPlug
	Inverter for inverting output signal from N.C. sensors to N.O.	Inverter for inverting output signal from N.O. sensors to N.C.
NC/NO	reversible	reversible
Maximum frequency:	10 kHz	10 kHz
Maximum output current:	400 mA	400 mA
	MFF I2 PP4 SmartPlug	MFF I2 NN4 SmartPlug
	Functional component for frequency control for N.C. sensors. If the input frequency falls short by 5%, an output signal is emitted.	Functional component for frequency control for N.O. sensors. If the input frequency falls short by 5%, an output signal is emitted.
Minimum frequency:	0.015Hz	0.015 Hz
Maximum frequency:	1 kHz	1 kHz
Maximum output current:	400 mA	400 mA

Palm is a registered trademark of Palm, Inc.

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TUNING FOR SENSORS

SMARTPLUG

SENSOPART

Plug-in intelligence

SmartPlug: IQ tuning for your sensor

SmartPlug spares you the use of expensive time function elements or other control elements, as: SmartPlug makes the sensor smart. When connected with SmartPlug, your sensor will adopt additional control functions. A timer, counter or inverter, frequency control or on and/or discharge delay. Settings are carried out per teach-in with the classics MFC, MFI, MFT and MFF using a control line. The new, universal genius MFU can be programmed via an infrared interface using a PDA (Palm) or notebook. SmartPlug is cascable in every version so that e.g. counter and timer can be combined.

SmartPlug is suitable for use with sensors from all manufacturers fitted with a standard M12 4-pin connector; a special adapter cable is available for connection to M8 connectors. SmartPlug hides its sophisticated electronics in the handy 60 x 20 mm small connector housing. Thanks to its maximum output current of 400 mA, SmartPlug can also be used as a switching amplifier. SmartPlug: plug-in intelligence!

Intelligence at its best:

Your advantages

- Very easy to use
- No installation costs
- Economical compared with conventional functional components
- Flexible use
- Relieves SPC programmes for time-critical functions
- Can be used as a switching amplifier up to 400 mA
- User-friendly due to simple teach-in
- Comfortable programming of MFU model with infrared interface and PDA (Palm) or notebook



MFU SmartPlug

The Jack of all trades!

One for all! Whether used as a timer, counter or inverter, for frequency control or on and/or discharge delay – the MFU SmartPlug can be used universally and is compatible with all sensors from well-known manufacturers. No control line is necessary for its setting, communication with the Palm, PC or notebook takes place via an infrared interface. Programming and function control is conceivably convenient and comfortable and can be carried out on a device already installed. The MFU SmartPlug is naturally also cascable.

MFU 12 SmartPlug

Whether used as a timer, counter or inverter, for frequency control or on and/or discharge delay – the MFU SmartPlug can be used universally and communicates with Palm, PC or notebook via an infrared interface. All functions can be combined with one another. User-friendly, comfortable software enables configuration and the read-out of set values along with the storage and thus later use of previous settings.

MFT 12 SmartPlug Timer

The MFT 12 SmartPlug timer provides the connected sensor with the additional time function on-delay or drop-out delay. Both functions can be set per teach-in. The basic factory setting is a drop-out delay of 100 ms. With this setting, the SmartPlug adapts the use of very short switch signals to PLC-suitable length.

MFC 12 SmartPlug Counter

The MFC 12 SmartPlug counter counts the output impulses of the connected sensor. When the pre-selected number is reached, the sensor output impulse is switched through. The pre-selected number is set per teach-in.

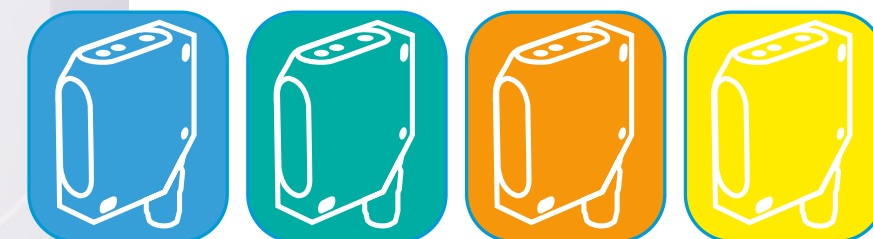
MFI 12 SmartPlug Inverter

The MFI 12 SmartPlug inverter transforms the signal from the connected sensor from N.C. to N.O. (MFI 12 PN4) or vice-versa (MFI 12 NP4) according to the type of SmartPlug. The output function can also be reversed (N.O./N.C.) via the control line.

MFF 12 SmartPlug Frequency controller

The MFF 12 SmartPlug controls the frequency of incoming signals. Should the actual frequency fall short of the programmed frequency by approx. 5 %, the SmartPlug output is activated and the sensor signal is switched through.

It is not size that counts but the expertise within!



The SmartPlug is also compatible with sensors from other well-known suppliers.