## SmartPlug MFT 12 PP4 / MFT 12 NN4



Programmable timer for rise-delay time or fall-delay time

- direct adaptation between sensor and connecting cable
- teachable as rise-delay time or fall-delay time
- simple setting by external teach-in
- no additional installations required
- time range between 1 and 65535 ms
- switching amplifier up to 400 mA



The MFT 12 SmartPlug is a freely programmable timer for the direct adaptation to sensors with a standardized M12 connection.



The MFT 12 SmartPlug is available in 2 versions:

- PNP input PNP output MFT 12 PP4 (for use with PNP sensors)
- NPN input NPN output MFT 12 NN4 (for use with NPN sensors)

## Connection:

The SmartPlug is very easy to connect: it is plugged onto the M12 connector of a sensor and the connecting cable is connected to the other side of the SmartPlug. The sensor configuration has to meet the standards (1 +Ub (BN) 3 -Ub (BU) 4 output (BK)).



## Setting:

The setting of the delay time is made by means of the signals "Teach input" and "Input SmartPlug". A delay time of 4 secs for example can be set as follows (the operating voltage being switched on):

- 1. Connect teach input with + Ub
- 2. Actuate sensor for 4 secs
- 3. Disconnect teach input from + Ub -> READY

After this setting the SmartPlug has a slow operation lasting 4 secs. This setting is maintained when the sensor is switched off.

E55-00067 E55-00068 teaching of a rise-delay time teaching of a fall-delay time н teach teach input input for rise-delay input H SmartPlug L input P SmartPlug L output H SmartPlug L output SmartPlug 0 0 teach input F L F input H SmartPlug L input P SmartPlug L output H SmartPlug L output H SmartPlug L operation with rise-delay time operation with fall-delay time н teach input teach input L input F SmartPlug L E L лл it artPlug output H SmartPlug L output SmartPlug

H = input or output active; L = input or output inactive

When switching on the operating voltage, the timer is reset. The initial state of the preset time is 100 ms fall-delay.

Subject to change without prior notice