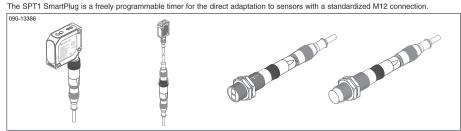
- teachable as rise-delay time or fall-delay time
- teachable as rise-delay time of fair-delay ti
- simple setting by external teach-input
- no additional wiring required
- time range between 1 and 65535 ms
- switching amplifier up to 150 mA
- can be used as pulse stretcher

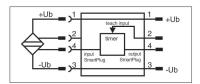


The SPT1 SmartPlug is available in 2 versions:

- PNP input PNP output SPT1-AP6X (for use with PNP sensors)
- NPN input NPN output SPT1-AN6X (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)).



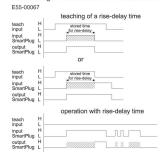
Setting

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.



teaching of a fall-delay time
teach H
input H
stored time
for fall-delay time
for fall-delay
for

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

TURCK, Inc. 3000 Campus Drive Minneapolis, MN 55441 Phone: 800-328-0580 Fax: 763-553-0708

SmartPlug SPT1-AP6X / SPT1-AN6X

10 001/100 11 11 11 11 1 10 10

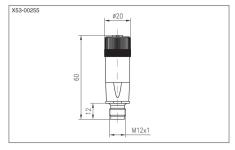
TURCK

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

Technical Data:

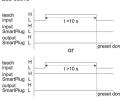
Operating voltage: 10 30	v DC, residual ripple of max. 10 %	Dispia
Own current consumption:	< 10 mA	Housi
Input resistance:	> 10 kOhm	Prote
Max. input frequency:	10 kHz	Dime
Min. response time:	0.1 ms	Conne
Max. output current:	150 mA short-circuit proof	Conne
Ambient temperature range:	0 +60 °C	Protec
Storage temperature range:	-20 +60 °C	Weigh

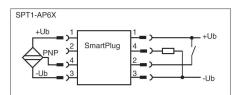
Display: red LED
Housing material: plastic PBTP/PA
Protection standard: IP 67
Dimensions: o20 x 60
Connection Input: 4-pin socket M12
Connection Output: 4-pin connector M12
Protection class (only if both ends connected): Uselight: 15 g

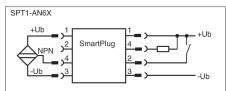


Preset to factory setting 100 ms fall-delay

E55-00075







Function	SmartPlug	Setting
N.C./N.O. inverter	SPC1	Interval counter 1
Flip Flop	SPC1	Interval counter 2
Divider (1 pulse per evolution)	SPC1	Pulse counter n
Count parts (count down)	SPC1	Pulse counter n
Amplifier 150 mA	SPC1	Pulse counter 1
Off delay	SPT1	Off delay n
On delay	SPT1	On delay n
PNP / NPN converter	SPN1-AP6-ARN6X	Factory setting
NPN / PNP converter	SPN1-AN6-ARP6X	Factory setting
PNP / NPN converter and		
N.C./N.O. inverter	SPN1-AP6-ARN6X	Setup: N.O> N.C.
NPN / PNP converter and		
N.C./N.O. inverter	SPN1-AN6-ARP6X	Setup: N.O> N.C.
Motion monitor	SPF1-AP6X	
Spin monitor	SPF1-AP6X	
Jam monitor	SPF1-AP6X	





SmartPlugs may only be used in combination with a proximity switch according to EN IEC 60947-5-2.



These units are not suited for safety related applications.

Subject to change without prior notice