

## PERFECT PROFINET NETWORKING IN THE INDUSTRIAL ENVIRONMENT

### TREE PROFINET MANAGED SWITCHES

The TREE Profinet Managed Switch from Murrelektronik simplifies fundamentally Profinet installation in the industrial environment and delivers perfect networking. The comprehensive diagnostic functions are able to localize faults quickly and reduce cost-intensive downtimes significantly.

- **Saving time during startup** through PROFINET incorporation of the control unit
- **Simple device replacement** through the practical neighbor discovery of defective participants and automated programming – saves time and saves nerves
- **More space in the control cabinet** by extending the distribution level into the field – control cabinets can be designed with smaller dimensions!
- **More reliability in troubleshooting** by using a reliable HTTPS server and password-protected administration



USABLE WORLDWIDE!



### NEIGHBOR DISCOVERY

If a participant in the Profinet topology is defective, the fault will be recorded through neighbor discovery of the managed switches. The same method is used to recognize a spare part and configure it automatically.



### ROBUST AND LONG-LASTING!

The switch is ideal for use in dirty and dusty industrial environments, and even in extreme temperatures. It has a compact, fully encapsulated design with a protection rating of IP67; the M12 connection technology is water-proof.

# COMPACT

## ORDER DATA

### TREE M-5TX PN IP67



Art-No.

58184

### TREE M-4TX PN



Art-No.

58185

### TREE M-6TX PN



Art-No.

58186

	Art-No.	Art-No.	Art-No.
	58184	58185	58186
<b>Connections</b>			
Ethernet, Profinet, Ethernet/IP	5 x M12, D-coded	4 x RJ-45	6 x RJ-45
Supply voltage	1 x 24 V through M12, A-coded	2 x 24 V through MSTBO 2.5/4-G1R	2 x 24 V through MSTBO 2.5/4-G1R
Reverse polarity protection	Yes	Yes	Yes
Relay for alarm contact	No	No	Yes (MSTBO 2.5/4-G1R)
<b>Technical data</b>			
Operating voltage	+9.5 to 31.5 V	9.5 to 31.5V	9.5 to 31.5V
Max. power consumption	3 W	2.5 W	3 W
Transfer rate	10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s
Operating modes	Autocrossing/Autonegotiation	Autocrossing/Autonegotiation	Autocrossing/Autonegotiation
<b>General data</b>			
Degree of protection	IP67	IP20	IP20
Housing	Black plastic	Black plastic	Black plastic
Fastening method	3-hole screw connection	Mounting rail DIN EN 50022	Mounting rail DIN EN 50022
Temperature range/operation	0 to +60 °C	0 to +60 °C	0 to +60 °C
Dimensions H x W x D (mm)	105 x 60 x 40	22.5 x 99 x 111	45 x 99 x 111
Weight	approx. 250 g	approx. 130 g	approx. 250 g
Max. operating altitude	3000 m	3000 m	3000 m
Shock/vibration	30g/10g	15g/1g	15g/1g

## CABLES WITH M12 D-CODED CONNECTORS

	Description	Length (m)	Cable type		
			Flexible (> 3 mil.)	Torsion ( $\pm 360^\circ/m$ )	Cabinet –
	Male, straight/ Male, straight	1.5	7000-44511-7960150	7000-44511-7930150	7000-44511-7940150
		3	7000-44511-7960300	7000-44511-7930300	7000-44511-7940300
		5	7000-44511-7960500	7000-44511-7930500	7000-44511-7940500
		7.5	7000-44511-7960750	7000-44511-7930750	7000-44511-7940750
		10	7000-44511-7961000	7000-44511-7931000	7000-44511-7941000
	Male, angled/ Male, angled	1.5	7000-44561-7960150	7000-44561-7930150	7000-44561-7940150
		3	7000-44561-7960300	7000-44561-7930300	7000-44561-7940300
		5	7000-44561-7960500	7000-44561-7930500	7000-44561-7940500
		7.5	7000-44561-7960750	7000-44561-7930700	7000-44561-7940700
		10	7000-44561-7961000	7000-44561-7931000	7000-44561-7941000
	Male, straight/ Male, straight	1.5	7000-44711-7960150	7000-44711-7930150	7000-44711-7940150
		3	7000-44711-7960300	7000-44711-7930300	7000-44711-7940300
		5	7000-44711-7960500	7000-44711-7930500	7000-44711-7940500
		7.5	7000-44711-7960750	7000-44711-7930750	7000-44711-7940750
		10	7000-44711-7961000	7000-44711-7931000	7000-44711-7941000
	Male, straight/ Male, 45° down	1.5	7000-44731-7960150	7000-44731-7930150	7000-44731-7940150
		3	7000-44731-7960300	7000-44731-7930300	7000-44731-7940300
		5	7000-44731-7960500	7000-44731-7930500	7000-44731-7940500
		7.5	7000-44731-7960750	7000-44731-7930750	7000-44731-7940750
		10	7000-44731-7961000	7000-44731-7931000	7000-44731-7941000

Additional connection information can be found at [www.murrelektronik.com](http://www.murrelektronik.com)