



# SWITCHES

## PERFECT CROSS-LINKING FOR YOUR APPLICATION

- Reduces the installation effort
- Switches for the control cabinet IP20, IP50, and the field IP67
- Compact and robust design

### FROM SOLID BASIC FUNCTIONS TO AN ENORMOUS FUNCTIONAL VARIETY

Murrelektronik offers a broad portfolio of switches. Unmanaged switches are used to reliably cover basic functions at an advantageous price-performance ratio. Lite-managed switches offer a large scope of functions and variants such as the PROFINET managed switches are tailored perfectly to the possibilities of PROFINET environments.

- Optimization of wiring flexibility and reduction of the complexity of installation solutions
- Easy insights into the communication and uncomplicated connection to network analysis tools or integrated web servers
- Relocation of the coupling level to the field creating space in the control cabinet by using compact and robust IP67 variants

### Unmanaged Switches



#### Unmanaged Switches

- IP20
- IP50
- IP67

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### Managed Switches



#### Lite-Managed Switches

- IP20
- IP67

*Page 1.11.4*



#### PROFINET-Managed Switches

- IP20
- IP67



*Page 1.11.6*

Unmanaged Switch



TREE 4TX Metal

IP50



TREE 8TX Metal

IP50



TREE 6TX Eco

IP20



TREE 8TX Metal

IP50



Order Data	Art-No.	Art-No.	Art-No.	Art-No.
4 ports	58151			
8 ports		58152		58171
6 ports			58170	
<b>Connections</b>				
Fieldbus	4 x RJ45	8 x RJ45	6 x RJ45	8 x RJ45
Supply	Spring clamp plug-in terminal: 0.2...2.5 mm <sup>2</sup>		Screw plug-in terminal: 0.2...1.5 mm <sup>2</sup>	
<b>Technical Data</b>				
Operating voltage	2 x 9...48 V DC, redundancy		2 x 9...30 V DC, redundancy	2 x 9...48 V DC, redundancy
Transfer rate	10/100 Mbit/s full duplex			
Operating modes	Autocrossing Autonegotiation			
<b>Switch Management</b>				
Switch Form	Unmanaged Switch			
Webserver	no			
VLAN (QoS) IEEE 802.p	yes			
Port Mirroring	no			
Protocols	no			
Remote maintenance	no			
Alarm contact	no			
<b>Diagnostic</b>				
Communication status	via LED			
Monitoring - no voltage	yes			
<b>General data</b>				
Protection	IP50		IP20	IP50
Housing	Metal black		Black plastic	Metal black
Mounting method	DIN-rail mountable TH35 (EN 60715)			
Temperature range	-10...+70 °C (storage temperature -40...+85 °C)		0...+60 °C (storage temperature -10...+70 °C)	-10...+70 °C (storage temperature -40...+85 °C)

Dimension drawing			

Notes

## Unmanaged Switch

### TREE 6TX Metal


IP50



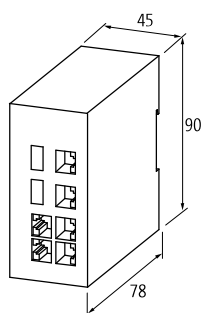
### TREE 8TX Metal

8 ports Gigabit  
IP50



Approvals:  Listed

Order Data	Art-No.	Art-No.
6 ports	58172	
8 ports Gigabit		58173
<b>Connections</b>		
Fieldbus	6 × RJ45	8 × RJ45
Supply	Screw plug-in terminal: 0.2...1.5 mm <sup>2</sup>	
<b>Technical Data</b>		
Operating voltage	2 × 9...30 V DC, redundancy	2 × 9...48 V DC, redundancy
Transfer rate	10/100 Mbit/s full duplex	10/100/1 000 Mbit/s full duplex
Operating modes	Autocrossing Autonegotiation	
<b>Switch Management</b>		
Switch Form	Unmanaged Switch	
Webservers	no	
VLAN (QoS) IEEE 802.p	yes	
Port Mirroring	no	
Protocols	no	
Remote maintenance	no	
Alarm contact	no	
<b>Diagnostic</b>		
Communication status	via LED	
Monitoring - no voltage	yes	
<b>General data</b>		
Protection	IP50	
Housing	Metal black	
Mounting method	DIN-rail mountable TH35 (EN 60715)	
Temperature range	-10...+70 °C (storage temperature -40...+85 °C)	
<b>Dimension drawing</b>		



## Notes

Unmanaged Switch

**TREE 4TX IP67 M12**

4 × M12 (female), D-coded  
IP67



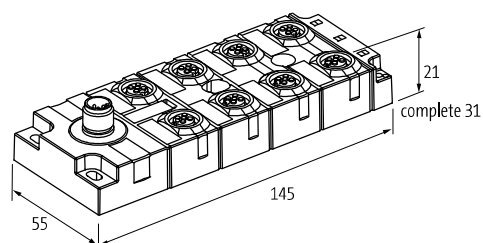
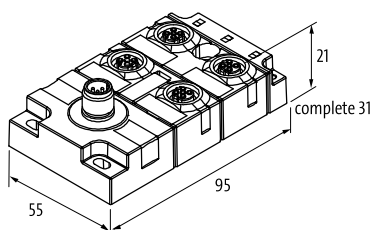
**TREE 8TX IP67 M12**

8 × M12 (female), D-coded  
IP67



Approvals:  Listed

Order Data	Art-No.	Art-No.
4 ports	58160	
8 ports		58161
Connections		
Fieldbus	4 × M12 (female), D-coded	8 × M12 (female), D-coded
Supply	1 × M12 (male), A-coded	
Technical Data		
Operating voltage	2 × 18...30 V DC, redundancy	
Transfer rate	10/100 Mbit/s full duplex	
Operating modes	Autocrossing Autonegotiation	
Switch Management		
Switch Form	Unmanaged Switch	
Websserver	no	
VLAN (QoS) IEEE 802.p	yes	
Port Mirroring	no	
Protocols	no	
Remote maintenance	no	
Alarm contact	no	
Diagnostic		
Communication status	via LED	
Monitoring - no voltage	yes	
General data		
Protection	IP67	
Housing	Zinc die casting, matte nickel plated	
Mounting method	4 hole screw mounting	
Temperature range	-25...+60 °C (storage temperature -40...+80 °C)	
Dimension drawing		



Notes

## Lite - Managed Switch

### TREE M-4TX

IP20



### TREE M-6TX

IP20



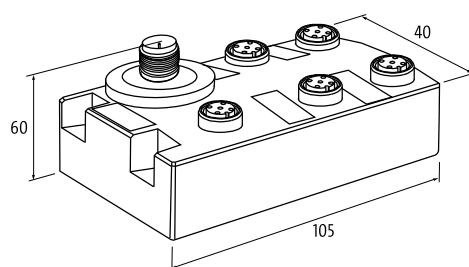
Order Data	Art-No.	Art-No.
4 ports	58181	
6 ports		58182
Connections		
Fieldbus	4 × RJ45	6 × RJ45
Supply	Spring clamp plug-in terminal: 0.2...2.5 mm <sup>2</sup>	
Technical Data		
Operating voltage	9.5...31.5 V	
Transfer rate	10/100 Mbit/s full duplex	
Operating modes	Autocrossing Autonegotiation	
Switch Management		
Switch Form	Lite - Managed Switch	
Webserver	HTTP, HTTPS	
VLAN (QoS) IEEE 802.p	yes	
Port Mirroring	DHCP, SNMP (v1, v2c, v3), RSTP, STP	
Protocols	DHCP, SNMP (v1, v2c, v3), RSTP, STP, LLDP, NTP, RMON, SSH (CLI)	
Remote maintenance	Open VPN	
Alarm contact	no	yes
Diagnostic		
Communication status	via LED, LLDP	
Monitoring - no voltage	yes	
General data		
Protection	IP20	
Housing	Black plastic	
Mounting method	DIN-rail mountable (EN 50022)	
Temperature range	0...+60 °C (storage temperature -40...+85 °C)	
Dimension drawing		
Notes		

**Lite - Managed Switch**
**TREE M-STX-PN IP67**

IP67



Order Data	Art-No.
5 ports	58183
Connections	
Fieldbus	5 × M12 (female), D-coded
Supply	1 × M12 (male), A-coded
Technical Data	
Operating voltage	9.5...31.5 V
Transfer rate	10/100 Mbit/s full duplex
Operating modes	Autocrossing Autonegotiation
Switch Management	
Switch Form	Lite - Managed Switch
Websserver	HTTP, HTTPS
VLAN (QoS) IEEE 802.p	yes
Port Mirroring	yes
Protocols	DHCP, SNMP (v1, v2c, v3), RSTP, STP, LLDP, NTP, RMON, SSH (CLI)
Remote maintenance	Open VPN
Alarm contact	no
Diagnostic	
Communication status	via LED, LLDP
Monitoring - no voltage	yes
General data	
Protection	IP67
Housing	Black plastic
Mounting method	3 hole screw mounting
Temperature range	0...+60 °C (storage temperature -40...+85 °C)
Dimension drawing	


**Notes**

## PROFINET - Managed Switch



### TREE M-4TX

PROFINET - Managed Switch  
IP20



### TREE M-6TX

PROFINET - Managed Switch  
IP20



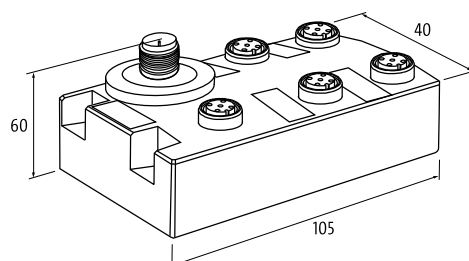
Order Data	Art-No.	Art-No.
4 ports	58185	
6 ports		58186
<b>Connections</b>		
Fieldbus	4 × RJ45	6 × RJ45
Supply	Spring clamp plug-in terminal: 0.2...2.5 mm <sup>2</sup>	
<b>Technical Data</b>		
Operating voltage	9.5...31.5 V	
Transfer rate	10/100 Mbit/s full duplex	
Operating modes	Autocrossing Autonegotiation	
<b>Switch Management</b>		
Switch Form	PROFINET - Managed Switch	
Webserver	HTTP, HTTPS	
VLAN (QoS) IEEE 802.p	yes	
Port Mirroring	yes	
Protocols	DHCP, SNMP (v1, v2c, v3), RSTP, STP, LLDP, NTP, RMON, SSH (CLI)	
Remote maintenance	Open VPN	
Alarm contact	no	yes
<b>PROFINET</b>		
Addressing	DCP	
FSU (Fast-Start-Up)	no	
Shared Device/Input	no	
Profinet Netload Class	I	
Specification	V2.3, Conformance Class B	
MRP	yes	
<b>Diagnostic</b>		
Communication status	via LED, LLDP	
Monitoring - no voltage	yes	
<b>General data</b>		
Protection	IP20	
Housing	Black plastic	
Mounting method	DIN-rail mountable (EN 50022)	
Temperature range	0...+60 °C (storage temperature -40...+85 °C)	
<b>Dimension drawing</b>		
<b>Notes</b>		

**PROFINET - Managed Switch**

**TREE M-STX-PN IP67**

 PROFINET - Managed Switch  
 IP67


Order Data		Art-No.
5 ports		58184
Connections		
Fieldbus	5 × M12 (female), D-coded	
Supply	1 × M12 (male), A-coded	
Technical Data		
Operating voltage	9.5...31.5 V	
Transfer rate	10/100 Mbit/s full duplex	
Operating modes	Autocrossing Autonegotiation	
Switch Management		
Switch Form	PROFINET - Managed Switch	
Websverer	HTTP, HTTPS	
VLAN (QoS) IEEE 802.p	yes	
Port Mirroring	yes	
Protocols	DHCP, SNMP (v1, v2c, v3), RSTP, STP, LLDP, NTP, RMON, SSH (CLI)	
Remote maintenance	Open VPN	
Alarm contact	no	
PROFINET		
Addressing	DCP	
FSU (Fast-Start-Up)	no	
Shared Device/Input	no	
Profinet Netload Class	I	
Specification	V2.3, Conformance Class B	
MRP	yes	
Diagnostic		
Communication status	via LED, LLDP	
Monitoring - no voltage	yes	
General data		
Protection	IP67	
Housing	Black plastic	
Mounting method	3 hole screw mounting	
Temperature range	0...+60 °C (storage temperature -40...+85 °C)	
Dimension drawing		



Notes	



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