



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

Page 1.11.1

Managed Switches



Lite-Managed Switches

- IP20
- IP67

Page 1.11.4



PROFINET-Managed Switches

- IP20
- IP67



Page 1.11.6

SWITCHES

Unmanaged Switch

TREE 4TX Metal

IP50



TREE 8TX Metal

IP50



TREE 6TX Eco

IP20

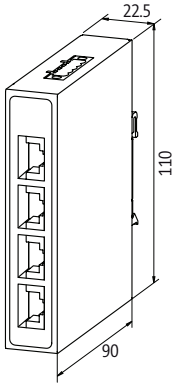
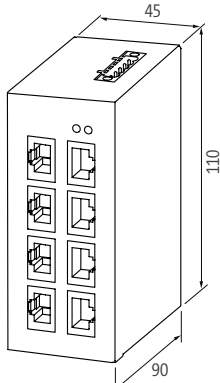
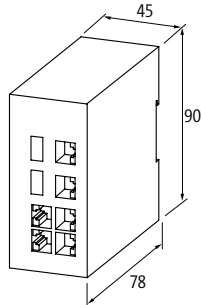


TREE 8TX Metal

IP50



Approvals:  UL
Listed

Order Data	Art-No.	Art-No.	Art-No.	Art-No.
4 ports	58151			
8 ports		58152		58171
6 ports			58170	
Connections				
Fieldbus	4 × RJ45	8 × RJ45	6 × RJ45	8 × RJ45
Supply	Spring clamp plug-in terminal: 0.2...2.5 mm ²		Screw plug-in terminal: 0.2...1.5 mm ²	
Technical Data				
Operating voltage	2 × 9...48 V DC, redundancy		2 × 9...30 V DC, redundancy	2 × 9...48 V DC, redundancy
Transfer rate	10/100 Mbit/s full duplex			
Operating modes	Autocrossing Autonegotiation			
Switch Management				
Switch Form	Unmanaged Switch			
Webserver	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	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				

SWITCHES

Unmanaged Switch

TREE 6TX Metal

IP50



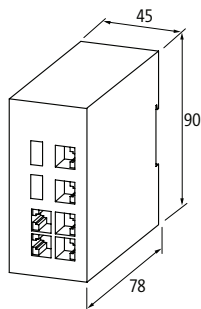
TREE 8TX Metal

8 ports Gigabit
IP50



Approvals:  Listed

Order Data	Art-No.	Art-No.
6 ports	58172	
8 ports Gigabit		58173
Connections		
Fieldbus	6 × RJ45	8 × RJ45
Supply	Screw plug-in terminal: 0.2...1.5 mm ²	
Technical Data		
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	
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	IP50	
Housing	Metal black	
Mounting method	DIN-rail mountable TH35 (EN 60715)	
Temperature range	-10...+70 °C (storage temperature -40...+85 °C)	
Dimension drawing		



Notes

Unmanaged Switch

TREE 4TX IP67 M12

4 × M12 (female), D-coded
IP67



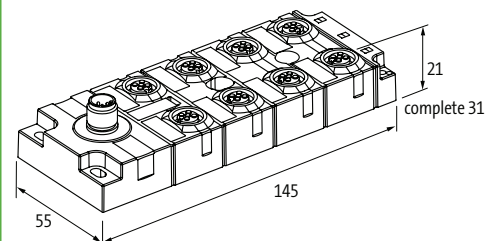
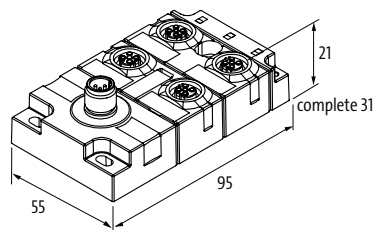
TREE 8TX IP67 M12

8 × M12 (female), D-coded
IP67



Approvals: UL[®] 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	
Webserver	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

SWITCHES

Lite - Managed Switch

TREE M-4TX

IP20

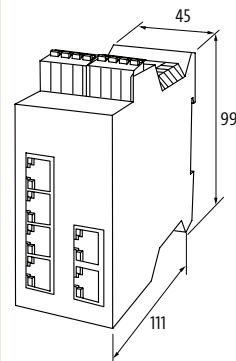
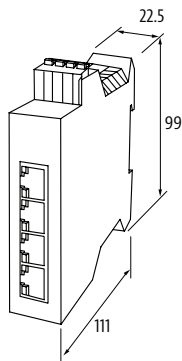


TREE M-6TX

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 ²	
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

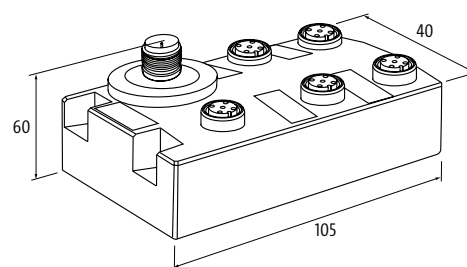
Lite - Managed Switch

TREE M-5TX-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	
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	
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	
--------------	--

SWITCHES

PROFINET - Managed Switch



TREE M-4TX

PROFINET - Managed Switch
IP20

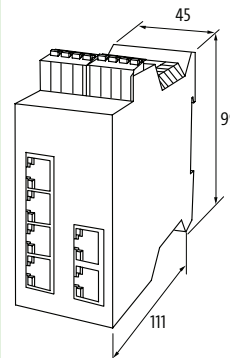
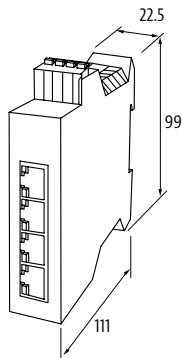


TREE M-6TX

PROFINET - Managed Switch
IP20



Order Data	Art-No.	Art-No.
4 ports	58185	
6 ports		58186
Connections		
Fieldbus	4 × RJ45	6 × RJ45
Supply	Spring clamp plug-in terminal: 0.2...2.5 mm ²	
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	
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	yes
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	IP20	
Housing	Black plastic	
Mounting method	DIN-rail mountable (EN 50022)	
Temperature range	0...+60 °C (storage temperature -40...+85 °C)	
Dimension drawing		



Notes

PROFINET - Managed Switch

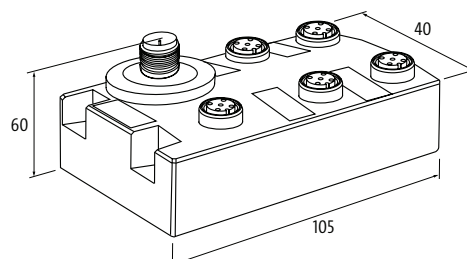


TREE M-STX-PN IP67

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
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
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