

## TREE 16 TX Metall 2GE 14 FE - Unmanaged Gigabit Switch - 16 Ports/

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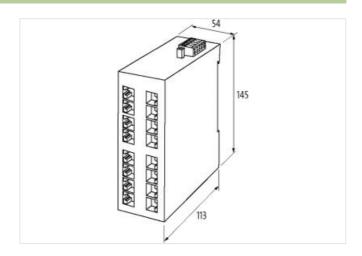
16 port unmanaged switch

Connection cables are in the online shop under "Connection Technology".

## **Link to Product**

## Illustration





Product may differ from Image







Commercial data		
ECLASS-6.0	19170106	
ECLASS-6.1	19170106	
ECLASS-7.0	19170106	
ECLASS-8.0	19170106	
ECLASS-9.0	19170402	
ECLASS-10.1	19170402	
ECLASS-11.1	19170402	
ECLASS-12.0	19170402	
ETIM-5.0	EC000734	
customs tariff number	85176200	
GTIN	4048879762076	
Packaging unit	1	
Electrical data   Supply		
Operating voltage DC min.	9 V	
Operating voltage DC max.	48 V	
Power consumption max.	7,4 W	
Industrial communication		
Data transmission rate max.	1000 MBit/s	
Industrial communication   Etherno	t functionality	
Auto-crossover	yes	
Auto-negotiation	yes	
duplex	Full duplex	

The information in this Product-PDF has been compiled with the utmost care.
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-08



stay connected

Diagnostics         No contact           Alarm contact         no           Diagnostic         No votage           LED display         Ethernet connection data traffic           Device protection [Electrical           Degree of protection (EN IEC 6652)         IP20           Mechanical data Material data           Material housing         Metal           Mechanical data [Mounting data         Metal           Mechanical data [Mounting data         Mechanical data [Mounting data           Mechanical data [Mounting dat	Switch type	unmanaged
Alzum contact         no           Diagnostic         No votage           LEG display         Ethernet connection/data traffic           Device protection (EN IEC 60529)         P20           Mechanical data   Material data         Color housing         black           Mechanical data   Mounting data         Metal           Muchanical data   Mounting data         Metal           Muchanical data   Mounting data         Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35, (EN 60715)         Color (English)           Height         145 mm         Color (English)         Color (English)           Wetch         54 mm         Color (English)         Color (English)           Environmental characteristics   Climatic         Color (English)	VLAN unmanaged (IEEE 802.1Q)	yes
Diagnostic         No voltage           LED display         Emerication connection/data traffic           Degree of protection (EN IEC 60529)         IP2D           Mechanical data   Material data         Value           Mechanical data   Material data         Medial           Mechanical data   Mounting data         Medial           Mounting mothod         goschnappt           Suitable for mounting type         Mounting rail TH36, (EN 80715)           Height         145 mm           Worth         54 mm           Depth         113 mm           Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature min.         20 °C           Storage temperature min.         20 °C           Connection type 1         16           Connection type 2         X1           Connection type 3         X1           Gender of the product of	Diagnostics	
LED display         Ethernet connection (data traffic           Device protection [Electrical]         Device of protection (EN IEC 6059)         IP20           Mechanical data [Material data]         Device of protection (EN IEC 6059)         IP20           Mechanical data [Mounting data]         Mounting mothed         Mechanical facts [Mounting data]           Mechanical fata [Mounting data]         Mounting mothed         geschnappt           Suitable for mounting type         Mounting rall TH35, (EN 60715)         Helight         145 mm           Height         145 mm         Helight         137 mm           Width         54 mm         Permonential characteristics [Climatic           Open Transport (Comparature min.)         0 °C         Comparature min.         0 °C           Operating temperature min.         20 °C         Comparature min.         20 °C           Storage temperature min.         20 °C         Comparature min.         20 °C           Connection type 2         X1         A.1         A.1           Connection type 2         X1         A.1         A.1<	Alarm contact	no
Device protection   Electrical         IP20           Mechanical data   Material data         IP20           Mechanical data   Material data         IP20           Mechanical data   Mounting   Metal         Metal           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Mounting mathod         geschnappt           Suitable for mounting type         Mounting rail TH35, (EN 60715)         Mounting mathod         Mounting rail TH35, (EN 60715)           Holght         145 mm         Mounting rail TH35, (EN 60715)         Mounting rail TH35, (EN 60715)           Holght         145 mm         Mounting rail TH35, (EN 60715)         Mounting rail TH35, (EN 60715)           Holght         145 mm         Mounting rail TH35, (EN 60715)         Mounting rail TH35, (EN 60715)           Holght         145 mm         Mounting rail TH35, (EN 60715)         Mounting rail TH35, (EN 60715)           Holght         145 mm         Mounting rail TH35, (EN 60715)         Mounting rail TH35, (EN 60715)           Holght         145 mm         Mounting rail TH35, (EN 60715)         Mounting rail TH35, (EN 60715)           Environmental Characteristics   Climatic         Commetion Parallea Characteristics   Climatic         Commetion Parallea Characteristics   Climatic         Mounting rail TH35, (EN 60715)         Mounting rai	Diagnostic	No voltage
Degree of protection (EN IEC 60329)         IP20           Mechanical data   Material data           Color housing         black           Mechanical data   Mounting data           Mechanical data   Mounting data           Mechanical data   Mounting data           Member of producting method         geschnappt           Suitable for mounting type         Mounting rail TH35, (EN 60715)           Helight         145 mm           Width         54 mm           Depth         13 mm           Environmental characteristics   Climatic         Commender           Environmental characteristics   Climatic         Commender           Coperating temperature min.         0 °C           Operating temperature min.         20 °C           Storage temperature max.         70 °C           Connection type 2         X1           Family construction form         RJ45           Gender         Inmale           Gondor         Inmale           Goldor contact arier         black           No. of poles         8           PIN 1         10 -           PIN 2         10 -           PIN 3         10 -           PIN 4         10 -           PIN 5         1	LED display	Ethernet connection/data traffic
Mochanical data   Material data         black           Color housing         black           Meterial housing         Metal           Mechanical data   Mounting data         Wounting method         geschnappt           Suitable for mounting type         Mounting rail *1485, (EN 60715)         Height         145 m           Width         54 mm         145 m           Deaph         13 mm         14 mm           Environmental characteristics   Climateristics	Device protection   Electrical	
Color housing         black           Material housing         Metal           Mechanical data   Mounting data         Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35, (EN 60715)           Height         145 mm           Under the properties of the propertie	Degree of protection (EN IEC 60529)	IP20
Material housing         Metal           Mechacial data   Mounting data           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH3S, (EN 60715)           Height         145 mm           Width         54 mm           Depth         131 mm           Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Connection type         V           Connection type 1         16           Connection type 2         X1           Family construction form         RJ4S           Gender         female           Color contact cerrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD -           PIN 4         No. of poles         RD -           PIN 5         No. of poles         RD -           PIN 6         RD -         PIN 6           RD -         PIN 7         No. of poles         RD -           PIN 8         No. of poles	Mechanical data   Material data	
Mechanical data   Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35. (EN 60715)           Height         145 mm           Width         54 mm           Depth         113 mm           Environmental characteristics   Climatic           Coperating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 2         X1           Connection type 1         16           Connection type 2         X1           Enailty construction from         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 3         TD -           PIN 3         RD +           PIN 5         n.c.           PIN 6         n.c.           PIN 7         n.c.           PIN 8         n.c.           PIN 9         n.c.           PIN 9         n.c.           Connection form         Plug-in terminals RK           Family construction form         male	Color housing	black
Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35, (EN 80715)           Height         145 mm           Width         54 mm           Depth         113 mm           Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 1           66         6           Connection type 2         X1           Family construction form         RJ45           Gender         temale           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           PIN 9         n.c.           PIN 9         n.c.           PIN 1         male           Color contact carrier         green	Material housing	Metal
Suitable for mounting type         Mounting rail TH35, (EN 60715)           Height         145 mm           Oepth         113 mm           Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 2         16           Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE <td>Mechanical data   Mounting data</td> <td></td>	Mechanical data   Mounting data	
Suitable for mounting type         Mounting rail TH35, (EN 60715)           Height         145 mm           Oepth         113 mm           Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 2         16           Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE <td>Mounting method</td> <td>geschnappt</td>	Mounting method	geschnappt
Height         145 mm           Width         54 mm           Depth         113 mm           Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature min.         -20 °C           Storage temperature max.         70 °C           Connection type 2           Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         FD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE </td <td></td> <td></td>		
Depth         113 mm           Environmental characteristics   Climatic           Coperating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 2         To °C           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         O V           PIN 3         24 V DC (UB 1)           PIN 4         0 V <td>Height</td> <td></td>	Height	
Environmental characteristics   Climatic           Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature min.         ≥0 °C           Storage temperature max.         70 °C           Connection type 2           Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         temale           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           PIN 9         n.c.           Connection of male         terminal           Contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Width	54 mm
Operating temperature min.         0 °C           Operating temperature max.         70 °C           Storage temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 2           Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Depth	113 mm
Operating temperature max.	Environmental characteristics   Climati	ic
Operating temperature max.         70 °C           Storage temperature max.         70 °C           Connection type 2         To °C           Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         OV           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Operating temperature min.	0 °C
Storage temperature min.         -20 °C           Storage temperature max.         70 °C           Connection type 2         Tomestion type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		70 °C
Storage temperature max.         70 °C           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		-20 °C
Connection type 1         16           Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Storage temperature max.	70 °C
Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Connection type 2	
Connection type 2         X1           Family construction form         RJ45           Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Connection type 1	16
Gender         female           Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Connection type 2	X1
Color contact carrier         black           No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Family construction form	
No. of poles         8           PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Gender	female
PIN 1         TD +           PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	Color contact carrier	black
PIN 2         TD -           PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	No. of poles	8
PIN 3         RD +           PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	PIN 1	TD+
PIN 4         n.c.           PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V	PIN 2	TD -
PIN 5         n.c.           PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		RD +
PIN 6         RD -           PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		n.c.
PIN 7         n.c.           PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
PIN 8         n.c.           Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
Connection         Plug-in terminals RK           Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
Family construction form         terminal           Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
Gender         male           Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
Color contact carrier         green           No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
No. of poles         5           PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
PIN 1         FE           PIN 2         0 V           PIN 3         24 V DC (UB 1)           PIN 4         0 V		
PIN 2       0 V         PIN 3       24 V DC (UB 1)         PIN 4       0 V	·	
PIN 3 24 V DC (UB 1) PIN 4 0 V	PIN 2	
PIN 4 0 V		
	PIN 5	24 V DC (UB 2)