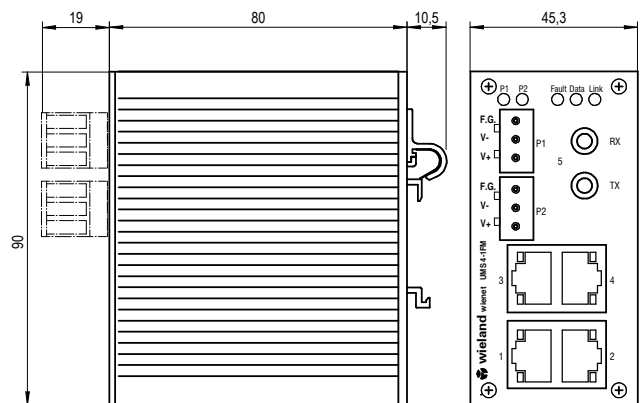


wienet UMS 4-1FM

wienet UMS 4-1FM
 Industrial Ethernet Switch
 5-port, unmanaged
 83.040.0002.0

- 4 Port RJ45 Ethernet Switch
- 1 Port Multi-Mode Optical Fiber with ST connector
- Auto sensing; Auto negotiation
- Auto crossing (Auto-MDI(X))
- Redundant power supply possible
- Supply voltage range 9 V ... 30 V DC



Dimensional diagram

Technical Data

wienet UMS 4-1FM	Order No. 83.040.0002.0
Ethernet	
Ethernet Ports	4 x 10/100Base-TX
Ethernet Ports	1 x 100Base-FX Multi-Mode Optical Fiber with ST connector
Ethernet transfer rate	10/100 Mbps
Ethernet connectors	4 x RJ45; 1x ST Optical Fiber
Auto negotiation	yes
Auto sensing	yes
Auto crossing (Auto-MDI(X))	yes
Communication	Full duplex / half duplex
Ethernet Standard	IEEE 802.3 / 802.3u / 802.3x
Ethernet cable length (Twisted Pair)	100 m max.
Switching mode	Store-and-forward switching mode
Topology	Line, star, mesh
Power supply	
Redundant power supply	yes (P1, P2)
Supply voltage range	9 ... 30 V DC
Connectors	2 x 3-pin terminal block (screw terminal)
Power consumption	4.5 W max.
Input current (at 24 V DC)	350 mA
Input current max.	600 mA
Ambient conditions	
Operating ambient temperature	-10 °C ... +70 °C
Humidity in operation	5 ... 95 % RH (non-condensing)
Storage temperature	-40 °C ... +85 °C
Mounting on	DIN rail 35 mm (EN60715)
Degree of protection	IP50
MTBF (hours)	455,736 h

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Technical Data

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Optical Fiber			
Fiber type	Multi-Mode		
Connection type	ST connector		
Typ. distance	2 km (max.)		
Cable dimensions core / cladding	62.5 / 125 µm		
Wave length	1270 ... 1360 nm		
TX Power max. / min.	-14 dBm / -19 dBm		
RX sensibility typ. / max.	-34 dBm / -32 dBm		
Dimensions			
B x H x T (see dimensional diagram)	45.3 mm x 90 mm x 90.5 mm		
Weight			
	ca. 255 g		
Housing material			
	Aluminum		
Shock und Vibration			
Shock	IEC60068-2-27		
Vibration	IEC60068-2-6		
Free Fall	IEC60068-2-32		
Connectors cross section			
min.	solid / stranded	0.2 mm ²	(AWG28)
max.	solid / stranded	1.5 mm ²	(AWG12)
Strip length	7 mm		
Torque	0.4 Nm max.		
Approvals und Standards			
EMV	Emission: EN55022, EN61000-3-2, EN61000-3-3 Immunity: EN55024, EN61000-4-2, EN6000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN6000-4-8, EN61000-4-11		
Safety	cULus (UL 60950-1; CSA C22.2 No. 60950-1)		
Display elements (LED's)			
Name	LED color	LED status	Description
P1, P2	green	○ ●	power input 1/2 disconnected or unsupplied power input 1/2 o.k.
Fault	green	○ ●	Both P1 and P2 are supplied or both P1 and P2 are not supplied P1 is missing or P2 is missing
Data	green	○ ≧*ε	no data transfer data transfer
Link	green	○ ●	no medium available medium is available
RJ45	green	○ ≧*ε	link broken or no cable plugged data transfer
	yellow	○ ●	10 M bit rate active 100 M bit rate active
○ = LED off, ● = LED on, ≧*ε = LED flashes			
Terminal connections			
1, ..., 4 (Ethernet / Fast Ethernet ports)	4 x Ethernet (RJ45)		
5 (Fiber Ethernet Port)	RX; TX Optical fiber, ST connector		
P1, P2 (Redundant power supply)	V+	Supply voltage, positive terminal	
	V-	Supply voltage, negative terminal	
	F.G.	Frame Ground	