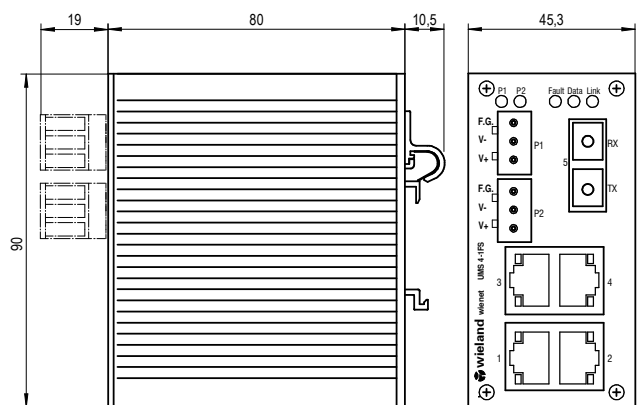




wienet UMS 4-1FS
Industrial Ethernet Switch
5-port, unmanaged
83.040.0003.0

- 4 Port RJ45 Ethernet Switch
- 1 Port Single-Mode Optical Fiber with SC 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 4-1FS	Order No. 83.040.0003.0
Ethernet	
Ethernet Ports	4 x 10/100Base-TX
Ethernet Ports	1 x 100Base-FX Single Mode Optical Fiber with SC connector
Ethernet transfer rate	10/100 Mbps
Ethernet connectors	4 x RJ45; 1x SC 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)	600 mA
Input current max.	300 mA
Ambient conditions	
Operating ambient temperature	0 °C ... +60 °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	IP40
MTBF (hours)	tbd h

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Technical Data

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Optical Fiber			
Fiber type	Single-Mode		
Connection type	SC connector		
Typ. distance	15 km (max.)		
Cable dimensions core / cladding	9 / 125 µm		
Wave length	1263 (Min) ... 1360 (Max) nm		
TX Power max / min	-8 dBm / -15 dBm		
RX sensibility max.	-32 dBm		
Dimensions			
B x H x T (see dimensional diagram)	45.3 mm x 90 mm x 80 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 un supplied
		●	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	○	no data transfer
		⊃*ε	data transfer
Link	green	○	no medium available
		●	medium is available
RJ45	green	○	link broken or no cable plugged
		⊃*ε	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, SC connector		
P1, P2 (Redundant power supply)	P1/V+	Supply voltage P1, positive terminal	
	P1/V-	Supply voltage P1, negative term.	
	P2/V+	Supply voltage P2, positive terminal	
	P2/V-	Supply voltage P2, negative term.	
	F.G.	Ground	