

Ethernet network
Modicon unmanaged switches

Device type			Unmanaged switches, 3, 5 ports, copper twisted pair	
				
Interfaces	Copper cable ports	Number and type	3 x 10/100BASE-TX ports	5 x 10/100BASE-TX ports
		Shielded connectors	RJ45	
		Medium	Shielded twisted pair, category CAT 5E	
		Total length of pair	100 m/328 ft	
	Fiber optic ports	Number and type	–	
		Connectors	–	
		Medium	–	
	Length of fiber	50/125 µm	–	
		62.2/125 µm	–	
		9/125 µm	–	
	Attenuation analysis	50/125 µm fiber	–	
		62.2/125 µm fiber	–	
		9/125 µm fiber	–	
	Ethernet services		–	
Configuration		–		
Topology	Number of switches	Cascaded	Unlimited	
		Redundant in a ring	–	
Redundancy			–	
Power supply	Voltage		12...24 V $\overline{\text{---}}$ (9.6...32 V) SELV	
	Consumption		2.2 W	
	Removable terminal block		3 - pin	
Operating temperature			0...+ 60°C/+ 32...+ 140°F	
Relative humidity			0...95% non-condensing	
Degree of protection			IP 30	
Dimensions		W x H x D	25 x 114 x 79 mm/ 0.98 x 4.49 x 3.11 in.	
Mounting			On symmetrical DIN rail, 35 mm/1.38 in. wide	
Weight			0.113 kg/0.249 lb	
Conforming to standards			UL 508 and CSA 22.2 No.142 IEC/EN 61131-2, IEC 60825-1 class 1	
LED indicators			Power supply, copper port activity, 10 or 100 Mbps data rate	
Alarm relay			–	
Reference			TCSESU033FN0	TCSESU053FN0
Pages			32	

(1) Length dependent on the attenuation analysis and attenuation of the fiber (typical value: 2,000 m/6,561 ft).

Unmanaged switches, 4, 5 and 8 ports, copper twisted pair and fiber optic				
				
4 x 10/100BASE-TX ports	5 x 10/100BASE-TX ports	8 x 10/100BASE-TX ports		
RJ45	M12 (type D, female)	RJ45		
Shielded twisted pair, category CAT 5E				
100 m/328 ft				
1 x 100BASE-FX port	–	–	–	–
Duplex SC	–	–	–	–
Multimode fiber	–	–	–	–
5,000 m/16,404 ft (1)	–	–	–	–
4,000 m/13,123 ft (1)	–	–	–	–
–	–	–	–	–
8 dB	–	–	–	–
11 dB	–	–	–	–
–	–	–	–	–
–	–	–	–	–
				USB Master mode, USB 2.0 Type A
Unlimited				
–				
–				
12...24 V $\overline{\text{---}}$ (9.6...32 V) SELV	24 V $\overline{\text{---}}$ (18...32 V) SELV	12...24 V $\overline{\text{---}}$ (9.6...32 V) SELV		
3.9 W	3.2 W	4.1 W	1.5 W	2.6 W
3 - pin	5 - pin, with M12 (type A, male)	3 - pin		6 - pin (redundant power supplies)
0...+ 60°C/+ 32...+ 140°F				–40 °C...+70 °C/–40 °F...+158 °F
0...95% non-condensing			10...95% non-condensing	
IP 30	IP 67	IP 30		IP 40
25 x 114 x 79 mm/ 0.98 x 4.49 x 3.11 in.	60 x 126 x 31 mm/ 2.36 x 4.96 x 1.22 in.	35 x 138 x 121 mm/ 1.37 x 5.43x 4.76 in.	38 x 102 x 79 mm/ 1.50 x 4.02 x 3.11 in.	50 x 135 x 117 mm/ 1.97 x 5.31 x 4.50 in.
On symmetrical DIN rail, 35 mm/1.38 in. wide	On a flat surfacein. wide	On symmetrical DIN rail, 35 mm/1.38 in. wide		
0.120 kg/0.265 lb	0.210 kg/0.463 lb	0.246 kg/0.542 lb	0.150 kg/0.331 lb	0.440 kg/0.970 lb
UL 508 and CSA 22.2 No.142 IEC/EN 61131-2, IEC 60825-1 class 1	cUL 508 and CSA 22.2 No. 142, Cc	UL 508 and CSA 22.2 No.142 IEC/EN 61131-2, IEC 60825-1 class 1	RCM, UL/IEC 61010-1, UL/IEC 61010-2-201	ISA-12.12.01, DNVGL- CG-0339, UL/IEC 61010-1, UL/IEC 61010-2-201, RCM
Power supply, copper port activity, 10 or 100 Mbps data rate	Power supply, link status	Power supply, copper port activity, 10 or 100 Mbps data rate	Power supply, link status, data status	Power supply, supply voltage 1/2 status, link status, data rate, configuration update via USB
Fiber optic port activity and status	–			
–				Yes
TCSESU043F1N0	TCSESU051F0	TCSESU083FN0	TCSESSU083FN0	TCSESPU083FN0
For more information, please refer to our website www.schneider-electric.com .	31	32		

Device type			Unmanaged switches, 5 and 9 ports, copper twisted pair and fiber optic			
						
Interfaces	Copper cable ports	Number and type	4 x 10/100BAST-TX ports		7 x 10/100BAST-TX ports	
		Shielded connectors	RJ45			
		Medium	Shielded twisted pair, category CAT 5E			
		Total length of pair	100 m/328 ft			
	Fiber optic ports	Number and type	1 x 100BASE-FX port		2 x 100BASE-FX port	
		Connectors	Duplex SC			
	Length of fiber	Medium	Multimode fiber	Single-mode fiber	Multimode fiber	Single-mode fiber
		50/125 µm	5,000 m/16,404 ft (1)	–	5,000 m/16,404 ft (1)	–
		62.2/125 µm	4,000 m/13,123 ft (1)	–	4,000 m/13,123 ft (1)	–
		9/125 µm	–	30,000 m/98,425 ft (1)	–	30,000 m/98,425 ft (1)
Attenuation analysis	50/125 µm fiber	8 dB	–	8 dB	–	
	62.2/125 µm fiber	11 dB	–	11 dB	–	
	9/125 µm fiber	–	16 dB	–	16 dB	
Ethernet services	–					
Configuration	USB Master mode, USB 2.0 type A					
Topology	Number of switches	Cascaded	Unlimited			
		Redundant in a ring	–			
Redundancy		–				
Power supply	Voltage	12 ... 24 V $\overline{DC}$ (9.6...32 V) SELV				
	Consumption	4.3 W		6.9 W		
	Removable terminal block	6 - pin (redundant power supplies)				
Operating temperature		- 40...+ 70°C/- 40...+ 158°F				
Relative humidity		10...95% non-condensing				
Degree of protection		IP 40				
Dimensions		W x H x D		39 x 135 x 117 mm/1.53 x 5.31 x 4.61 in.		56 x 135 x 117 mm/2.20 x 5.31 x 4.61 in.
Mounting		On symmetrical DIN rail, 35 mm/1.38 in. wide				
Weight		0.430 kg/0.948 lb		0.510 kg/1.124 lb		
Conforming to standards		ISA-12.12.01, DNVGL-CG-0339, UL/IEC 61010-1, UL/IEC 61010-2-201, RCM				
LED indicators		P1 and P2 power supplies, link status, data status				
Alarm relay		Activity, detected fault (power supply, Ethernet network, or communication port) (volt-free contact 1 A max. at 24 V $\overline{DC}$)				
Reference		TCSESPU053F1CU0	TCSESPU053F1CS0	TCSESPU093F2CU0	TCSESPU093F2CS0	
Pages		32				

(1) Length dependent on the attenuation analysis and attenuation of the fiber (typical value: 2,000 m/6,561 ft).
(2) Length dependent on the attenuation analysis and attenuation of the fiber (typical value: 15,000 m/49,212 ft).

Unmanaged switches, 10 ports, copper twisted pair and fiber optic	
	
Interfaces	8 x 10/100BAST-TX ports
	RJ45
	Shielded twisted pair, category CAT 5E
	100 m/328 ft
	2 x 100BASE-FX port
	Duplex SC
	Multimode fiber
	5,000 m/16,404 ft (1)
	4,000 m/13,123 ft (1)
	30,000 m/98,425 ft (2)
Attenuation analysis	8 dB
	11 dB
	16 dB
	–
	–
Ethernet services	Configuration
	USB Master mode, USB 2.0 type A
Topology	Unlimited
	–
Redundancy	
Power supply	12 ... 24 V --- (9.6...32 V) SELV
	8.4 W
	3 - pin
Operating temperature	
Relative humidity	
Degree of protection	
Dimensions	35 x 138 x 121 mm/1.37 x 5.43 x 4.76 in.
	On symmetrical DIN rail, 35 mm/1.38 in. wide
Mounting	
Weight	
Conforming to standards	
LED indicators	
Alarm relay	
Reference	
Pages	

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