Unmanaged Switch

Series 9721





- For operation of up to four inherently safe fibre optic cables "op is" according to IEC 60079-28
- For 100 Mbit/s Industrial Ethernet
- Transmission range up to 5 km (multi mode) or up to 30 km (single
- Extended temperature range -30 ...+70 °C
- Redundant supply
- Installation in Zone 2 or in the safe area

WebCode 9721B



The 9721 unmanaged switch is designed for linking electrical Ethernet networks (TX) and fibre optic (FX) based networks. The fibre optics are used for operation in hazardous areas of Zone 0, 1, 2, 20, 21 and 22 with the type of protection "Ex op is" (IEC/EN 60079-28). Therefore, conventional fibre optic cables can also be used in hazardous areas and may be connected and disconnected during operation (hot-swap). The unmanaged switch has 2 TX ports and 4 FX op is ports. Redundant supply can be provided. Compatible with: Remote I/O IS1+, HMI Series ET/MT-xx6-A-FX and ET/MT-4x8, as well as for IP network cameras.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in			•			•

	NEC 505 Class I			NEC 506			
Zone	0	1	2	20	21	22	
Ex interface	•	•	•	•	•	•	
Installation in			•				

	NEC 500 Class I Class II Class III					
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•				

Selection Table						
Product variant	U	nmanaged Switch FX op is / TX S	С			
FO fibre type	FO transmission distance	Interface 1	Interface 2	Product Type	Art. No.	Weight kg
Multi mode	5 km 4 km	4 Port, 100 Base-FX MM SC	2 Port, 100 Base-TX Cu, RJ45	9721/13-42-14	243427 🔺	0.500
Multi mode/single mode	30 km 4 km 5 km	4 Port, 100 Base-FX SM/ MM SC	2 Port, 100 Base-TX Cu, RJ45	9721/13-42-74	243429	0.500
Single mode	30 km	4 Port, 100 Base-FX SM SC	2 Port, 100 Base-TX Cu, RJ45	9721/13-42-54	243428	0.500

Single mode version is not suitable for direct connection to Remote I/O IS1+.

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex nA [op is T6 Ga] IIC T4 Gc
IECEx dust explosion protection	[Ex op is Da] IIIC
ATEX gas explosion protection	
ATEX dust explosion protection	
EAC gas explosion protection	☑ 2 Ex e [op is T6 Ga] IIC T4 Gc X
EAC dust explosion protection	$\overline{\mathbb{L}}$ [Ex op is Da] IIIC X
Certificates	ATEX (TUR), Canada (FM), EAC (Sertium), IECEx (TUR), India (PESO), USA (FM)

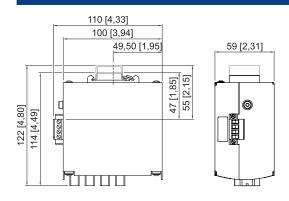


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Technical Data		
Electrical Data		
Connection Ethernet Interface	RJ 45 plug connector	
Transfer rate	10/100 Mbit/s Auto-negotiation	
Operating mode	Half duplex, Full duplex Auto-MDI(X)	
Auxiliary Power		
Max. power consumption	6.4 W	
Nominal voltage	24 V DC	
Polarity reversal protection	Yes	
Current consumption max.	500 mA	
Ambient Conditions		
Ambient temperature	-30 °C +70 °C	
Mechanical Data		
Degree of protection (IP)	IP20	
Enclosure material	Stainless steel, powder-coated	
Mounting / Installation		
Mounting type	On 35 mm DIN rail	

Accessories			
Figure	Description	Art. No.	Weight kg
FO patch cable			
	Patch cable for connection of IS1+ Ethernet CPU 9441 and 9442 with media converter 9721; plug LC / SC; length 3 m	220911 🔺	_

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Unmanaged Switch Series 9721 Optical interfaces FO wavelength FO fibre cross-section FO transmission distance Product Type FO fibre type FO connection type 9721/13-42-14 Multi mode SC plug connector 1310 nm 50/125 μm [OS3, OS4] 5 km 62.5/125 µm [OM1] 9721/13-42-54 9/125 µm [OS1, OS2] 30 km Single mode SC plug connector 1300 nm 50/125 μm [OS3, OS4] 62.5/125 μm [OM1] 9/125 μm [OS1, OS2] 9721/13-42-74 1310 nm 1300 nm 30 km Multi mode/single mode SC plug connector 4 km 5 km