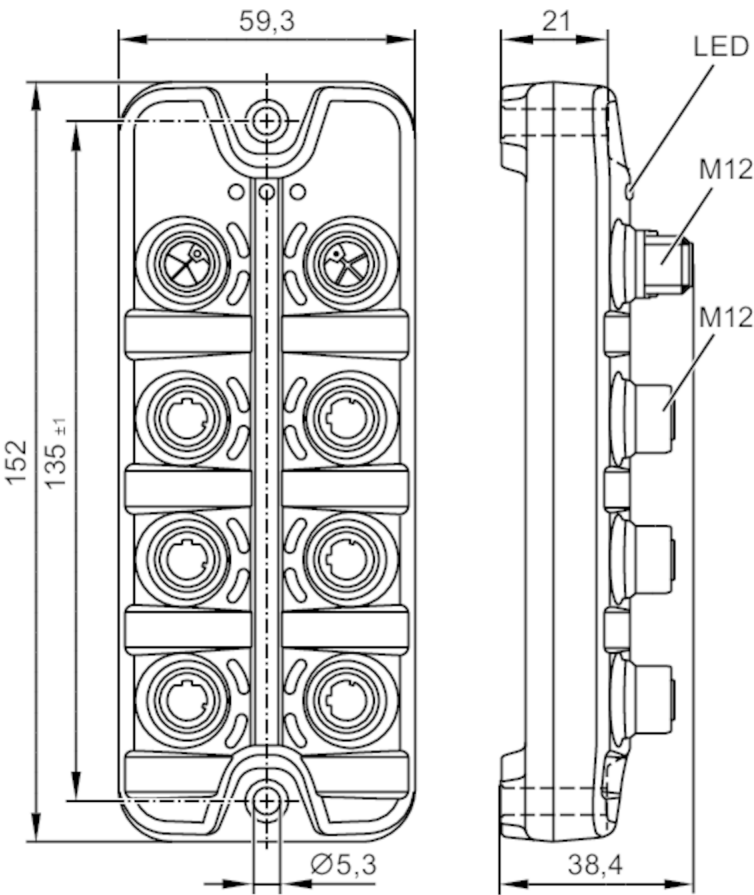


AL3100



PROFINET-Switch

ETH Switch PFL PN-A 6P IP67



Depending on the version some LEDs are inactive



Application		
Design		unmanaged switch for field applications
Application		for PROFINET networks
Daisy-chain function		voltage supply
Electrical data		
Operating voltage	[V]	8...32 DC; (US ; to PELV)
Nominal voltage DC	[V]	12 / 24
Current consumption	[mA]	100; (US; 24 V: 50 mA)
Protection class		III
Reverse polarity protection		yes
Interfaces		
Communication interface		Ethernet
Number of Ethernet interfaces		6
Transmission standard		10Base-T; 100Base-TX
Transmission rate		10 MBit/s; 100 MBit/s

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PROFINET-Switch

ETH Switch PFL PN-A 6P IP67

Note on interfaces	PROFINET Conformance Class A (CC-A)
	processing type: Store and Forward
	auto polarity
	auto negotiation
	auto MDI-X
	QoS (Quality of Service): IEEE 802.1p, IEEE 802.1Q
	priority queues: 4
	MAC table size: 2000 addresses
	blocking: LLDP, PTCP 01:80:C2:00:00:0E

Operating conditions		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-25...85
Max. relative air humidity	[%]	90
Max. height above sea level	[m]	4000
Protection		IP 65; IP 66; IP 67
Protection rating (NEMA 250)		6P
Degree of soiling		2
Chemical media	ISO 16750-5	AA, BA, BD, HLP, CC, DB, DC, DD, CA
	NEMA 250 5.13.1	AA

Tests / approvals		
EMC	UN/ECE-R10 Noise emission and noise interference:	100 V/m
	DIN EN 61000-6-2 ESD	
	DIN EN 61000-6-4 Burst	
	ISO 7637-2 pulse 1	severity level 4 / function state C (12 V)
	ISO 7637-2 pulse 2a	severity level 4 / function state A (12 V)
	ISO 7637-2 pulse 2b	severity level 4 / function state C (12 V)
	ISO 7637-2 pulse 3a	severity level 4 / function state A (12 V)
	ISO 7637-2 pulse 3b	severity level 4 / function state A (12 V)
	ISO 7637-2 pulse 4	severity level 4 / function state A (12 V)
	ISO 7637-2 pulse 5a	severity level 3 / function state A (12 V)
	ISO 7637-2 pulse 1	severity level 4 / function state C (24 V)
	ISO 7637-2 pulse 2a	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 2b	severity level 4 / function state C (24 V)
	ISO 7637-2 pulse 3a	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 3b	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 4	severity level 4 / function state A (24 V)
Shock resistance	DIN EN 60068-2-27	
Fast temperature changes	EN 60068-2-30	
	EN 60068-2-78	
	EN 60068-2-52	
Vibration resistance	DIN EN 60068-2-64	
	DIN EN 60068-2-6	
	EN 60068-2-27	
MTTF	[years]	232

Mechanical data		
Weight	[g]	315.15
Housing		rectangular

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PROFINET-Switch

ETH Switch PFL PN-A 6P IP67

Type of mounting	Backplane mounting
Dimensions [mm]	152 x 59.3 x 38.4
Material	housing: PA orange; Socket: brass nickel-plated
Sealing material	FKM
Remarks	
Remarks	Further information is available in the manual.
Pack quantity	1 pcs.

Electrical connection - Ethernet

Connector: 6 x M12; coding: D; sealing: FKM



X1...X6

1	TX +
2	RX +
3	TX -
4	RX -
5	n.c.

Electrical connection - voltage supply IN

Connector: 1 x M12; coding: L



XD1

1	+ 24 V DC (US)
2	GND (UA)
3	GND (US)
4	+ 24 V DC (UA)
5	FE

Electrical connection - voltage supply OUT

Connector: 1 x M12; coding: L; sealing: FKM



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PROFINET-Switch

ETH Switch PFL PN-A 6P IP67

XD2	
1	+ 24 V DC (US)
2	GND (UA)
3	GND (US)
4	+ 24 V DC (UA)
5	FE