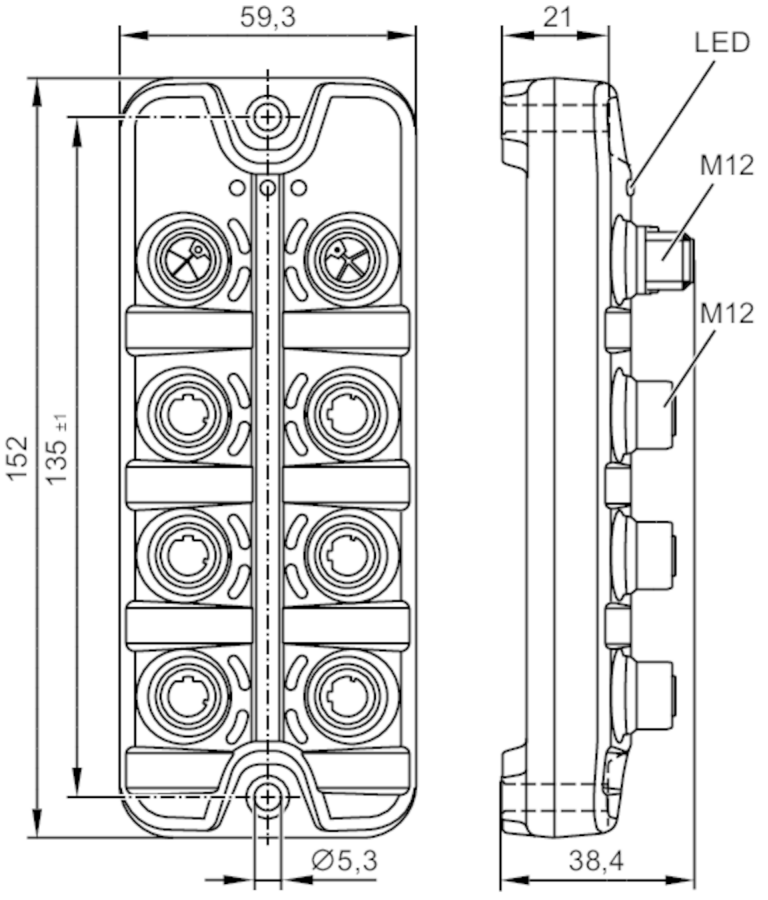
AL3100

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		für PROFINET-Netzwerke
Daisy-chain function		power supply
Electrical data		
Operating voltage	[V]	8...32 DC; ((US ; to SELV/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

AL3100

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	
Pollution degree		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 immunity:	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 change		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	
Mechanical data			
Weight	[g]	315.15	
Materials		housing: PA orange; socket: brass nickel-plated	
Sealing material		FKM	

AL3100

PROFINET-Switch

ETH Switch PFL PN-A 6P IP67

Remarks	
Remarks	For further information please see the operating instructions.
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 - power 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 - power supply OUT

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

AL3100

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