

Part number: 43-08002
SAL-12-4FK5-8-2FK4-1FS4-1FK4

- ProfiNet protocol slave station
- 8-channel PNP input and output adaptive M12 5PIN A-code interface
- Integrated Ethernet switch function
- Port has short circuit, over-voltage, under-voltage, reverse connection protection
- IP67 protection level

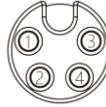


Basic parameters

Shell material	Aluminum alloy
Shell color	Anodized black
Protection level	IP67, epoxy full potting
Dimensions	155mm×30mm×31.9mm
Weight	208g
Operating temperature	-25°C...70°C
Storage/transport temperature	-40°C...85°C
Operating humidity	5%...95%
Storage/transport humidity	5%...95%
Operating atmospheric pressure	80KPa...106KPa
Storage/transport atmospheric pressure	80KPa...106KPa
I/O port tightening torque	M12:0.5Nm
Application environment	Comply with EN-61131
Vibration test	Comply with IEC60068-2
Impact test	Comply with IEC60068-2
Free drop test	Comply with IEC60068-32
Electromagnetic compatibility (EMC)	Comply with IEC61000-4-2, -3, -4
Certification	CE, RoHS
Mounting hole size	Φ 4.5mm×2

Communication interface

M8 A-code female



Pin	Definition	Description
1	TX+	Data sent +
2	RX+	Data received +
3	RX-	Data received -
4	TX-	Data sent -

Port parameters

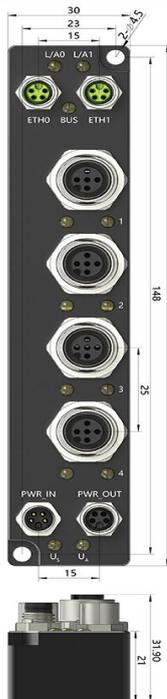
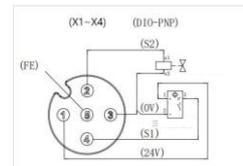
Connection mode	2×M8 A-code; 4-pin socket
Physical layer	Ethernet
Transmission speed	10/100 Mbps, full duplex
Characteristics	Protocol characteristics
Alarm function	Diagnostic alarm, process alarm
Minimum cycle time	1ms
Communication port tightening 1	M8: 0.5Nm

I/O port wiring diagram Input/Output (X1-X4)

M12 A-code Female



1. 24VDC+
2. Input/Output
3. 0 V
4. Input/Output
5. FE

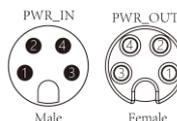


Port parameters

Number of input channels	8
Type	PNP
Input signal	3-wire PNP sensor or 2-wire passive signal
Input signal "0"	Low level 0~5V
Input signal "1"	High level 11~30V
Low level current	<1.5mA
High level current	>2mA
Switching threshold	EN 61131-2 Type 1/3
Switching frequency	250Hz
Input delay	20 μs
Input maximum supply current	200mA
Process data	1 byte input
I/O connection method	M12 5pin socket A-code
Number of output channels	8
Type	PNP
Output voltage	24V (follow UA)
Channel output current	0.5A/ch
Output diagnostic type	Point diagnosis
Synchronization factor	####
Switching frequency	250Hz
Load type	Resistance, inductance, lamp
Short circuit protection	Yes
Overload protection	Yes
Process data	1 byte output
I/O connection method	M12 5pin socket A-code

Power port

M8 A-code male/female



Pin	Definition	Description
1	+24V U _s	System/Input power +24V
2	+24V U _a	Output power +24V
3	GND U _s	System/Input power GND
4	GND U _a	Output power GND

※U_s is the system and input power supply, U_a is the output power supply

Port parameters

Power connection method	M8 4-pin A-code male/female
System power voltage U _S	18...30 VDC (type, 24VDC)
Auxiliary power voltage U _A	18...30 VDC (type, 24VDC)
Total current I _S /I _A	4A
Quiet operating current I _C	≤150mA
Overvoltage protection	Yes
Power reverse connection protection	Yes
Power port tightening torque	M8: 0.5Nm

Module LED indicators

PWR	Green: Power supply is normal Red: Module power supply is connected in reverse/UA power is not connected/voltage is too high/voltage is too low
IO	Green: Channel signal is normal Red: Port power supply is short-circuited/current is too large
LINK	Green: Link is normal, data communication is abnormal Yellow flashing: Link is normal, data communication is normal Off: Link is not established
BUS	Off: Module is working normally Red: Configuration and connection are inconsistent/module failure Red flashing: Device name/IP address/module configuration error

I/O signal distribution table

Input/Output	Byte	Bit0	Bit1	Bit2	Bit3	Bit4	Bit5	Bit6	Bit7
0	X1P4	X1P2	X2P4	X2P2	X3P4	X3P2	X4P4	X4P2	