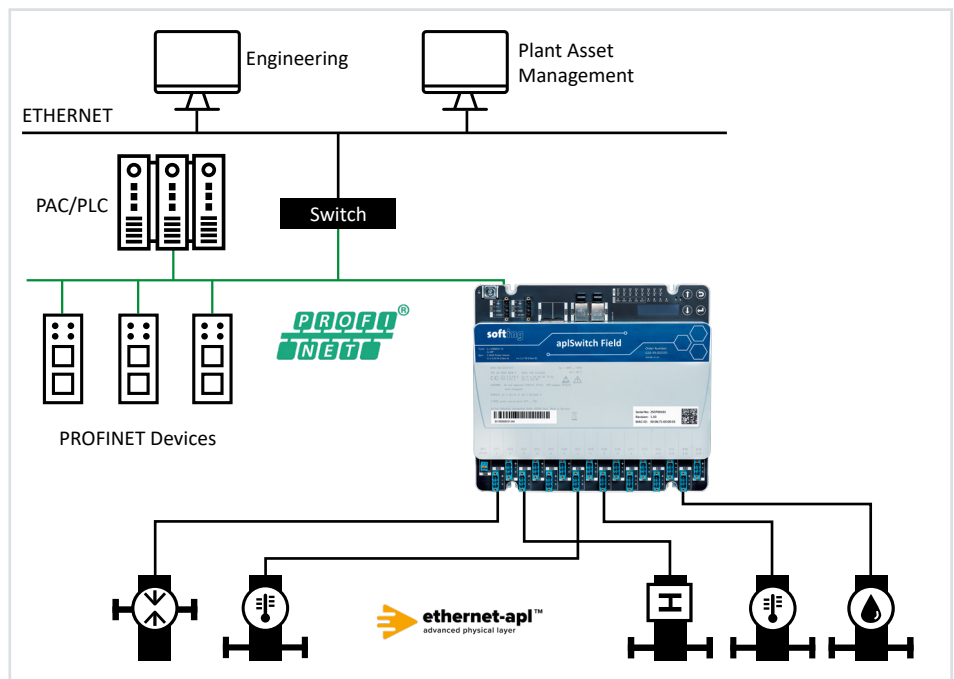


aplSwitch Field



16 port Ethernet-APL Field Switch for use in Zone 2

- Transparent connection of intrinsically safe Ethernet-APL field devices to Industrial Ethernet networks
- Supplies the field devices with intrinsically safe power
- Installable in Ex Zone 2
- Easy integration into automation systems



Ethernet-APL for seamless and reliable integration into DCS and AMS systems

- 16 Ethernet APL spur „2-WISE“ ports
- PROFINET enabled switch with support for PROFINET MRP ring topology
- Supports all major DCS and AMS systems like Emerson, Siemens, ABB and others
- Ensures stable networks via ingress/egress support

Extensive diagnostics

- Integrated PROFINET diagnostic functions for easy commission, maintenance and trouble shooting
- Local display for instant commissioning diagnostics
- Enhanced FDI support for easy device integration and parametrization

Allows installation in hazardous areas

- All product variants can be installed in Ex zone 2
- Field Devices located in Ex zone 0 and 1 can be connected to the switch
- Ruggedized and robust housing for field installation IP30

PowerClass A and B support for APL Field devices

- Allows usage of more complex/power intensive field devices
- APL power class B supports up to 1,17 W per device on 4 ports
- Futureproof since no limitation to power class A with 0,54 W

apSwitch Field

Technical Data

Explosion Protection	Installation (zones) Ex interface zone IECEx certificate IECEx gas explosion protection IECEx dust explosion protection ATEX certificate ATEX gas explosion protection ATEX dust explosion protection	2, safe area 0, 1, 2, 20, 21, 22 IECEx TUR 24.0096X Ex ec ic [ia Ga] IIC T4 Gc [Ex ia Da] IIIC TÜV 24 ATEX 9218 X Ⓔ II 3 (1) G Ex ec ic [ia Ga] IIC T4 Gc Ⓔ II (1) D [Ex ia Da] IIIC
Safety Data Spurs (S01...S16)	Intrinsic safety concept Max. output voltage Class A U _o Max. output current Class A I _o Max. output power Class A P _o Max. output voltage Class B U _o Max. output current Class B I _o Max. output power Class B P _o Max. internal capacitance C _i Max. internal inductance L _i Max. safety voltage U _m	2-WISE (CLC IEC/TS 60079-47:2021) 14.9V 379 mA 998 mW 17.1 V 378 mA 1660 mW 110 pF 280 nH 60V
Safety Data Pt100 (SPT)	Nominal output current I _N Safety data according Max. output voltage U _o Max. output current I _o Max output power P _o Max. internal capacitance C _i Max. internal Inductance L _i	1 mA ib 4.94 V 15.6 mA 52 mW 11 nF 0 nH
Electrical Data	Max. safety voltage U _m Interface 1 version Transfer rate interface 1 Number of ports interface 1 Connection type interface 1 Interface 2 version Transfer rate interface 2 Number of ports interface 2 Connection type interface 2	60 V 100BASE-TX 10/100 MBit/s 2 (XT1, XT2) RJ45 (EIA/TIA 568B) 100BASE-FX (optional) 100 MBit/s 2 (XT3, XT4) SFP (optional)
Auxiliary Power	Auxiliary power nominal voltage U _N Auxiliary power voltage range Max. current consumpt. 24 V DC I _N Max. current consumpt. 48 V DC I _N Max. power consumption Max. power dissipation	24 V DC, 48 V DC 19.2.....57.6 V DC 1.4 A 0.65 A 31.2 W 19 W
Galvanic Isolation	Test voltage for galvanic isolation Auxiliary power/spurs/100BASE Between spurs	According to standard EN 60079-11 ≥ 1500 V AC none

apSwitch Field

Technical Data

Field Device Interface	Spurs version	Ethernet-APL (10BASE-T1L)
	Number of ports spurs	16
	Characteristic spurs	2-WISE power source
	Transfer rate spurs	10 MBit/s full duplex
	Power Class	A
		B
	Max. number of spurs power class A	16
	Max. number of spurs power class B	4
	Max. number of spurs PROFIBUS PA	0
	Output nominal voltage range class A U_N	9.6...13.8 V
	Output nominal current power class A I_N	56 mA
	Output power power class A P_N	0.54 W
	Output nominal voltage range class B U_N	10.1...12.6 V
	Output nominal current power class B I_N	115 mA
	Output power power class B P_N	1.17 W

Device Specific Data	Protocols 1	PROFINET
	Characteristic protocol 1	Device, Conformance Class B
	Availability protocol 1	System redundancy S2, MRP
	Functions protocol 1	Dynamic reconfiguration, Network load class III
		Pruning
		Rate limiter
	Ethernet functions	SNMP
		DHCP
	Security	HTTPS
		Password management
		Port lock
	Real-time clock	Yes

Diagnostics	Physical layer 10BASE-T1L	SNR
		TDR
		Shield unbalance
	Communication	Lost packets
		LLDP
	Ambient condition	Temperature, humidity

aplSwitch Field

Technical Data

Display	Display resolution	256 x 64 pixels
	Display operation	4 operating keys, capacitive
Ambient Conditions	Ambient temperature	-40 °C ... +70 °C
	Ambient temperature note 1	-40 °C ... +65 °C (with SFP module)
	Ambient temperature note 2	-40 °C ... +60 °C (if B-ports are used)
	Storage temperature	-40 °C ... +80 °C
	Max. relative humidity	95% non-condensing
	Max. operating altitude	< 2000 m
Mechanical Data	Degree of protection (IEC 60529) with screw terminals	IP20
	Degree of protection (IEC 60529) with spring clamp terminals	IP30
	Fire resistance (UL 94)	V0
	Pollutant class	Acc. to G3 (ISA-71-04-2013)
	Enclosure material	Aluminium, painted
	Dimensions (L x W x H)	260 x 292 x 52,6 mm
	Weight	2.9 kg
Mounting / Installation	Mounting orientation	Horizontal Vertical
	Mounting type	On mounting plate
Components	SFP module	2 x 100BASE-FX

Scope of Delivery

Hardware	aplSwitch Field
Documentation	On website

Order Numbers

GSL-XX-020102	aplSwitch Field with spring clamp terminals
GSL-XX-020103	aplSwitch Field with screw terminals

Additional Products and Services

ACA-XX-020203	Screw terminals , Contents: 16 x 3-pin, blue; 2 x 4-pin, black
ACA-XX-020202	Spring clamp terminals , Contents: 16 x 3-pin, blue; 2 x 4-pin, black
AAA-XX-020301	Multi-Mode Duplex SFP Transceiver
on request	Mounting plate for din rail including 4 screws

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