

1718 Ex I/O

Communication Adapter Catalog Number 1718-AENTR

I/O Module Catalog Numbers 1718-IJ, 1718-OB2, 1718-OB2L, 1718-IBN8, 1718-IBN8B, 1718-IT4B, 1718-IR4B, 1718-IF4HB, 1718-CF4H

Power Supply Catalog Number 1718-PSDC

Chassis Catalog Numbers 1718-A20, 1718-A10

Connection Cable Catalog Number 1718-CBL3

Placeholder Module Catalog Number 1718-ARM

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Available 1718 Ex I/O Products

1718 Ex I/O Product Features

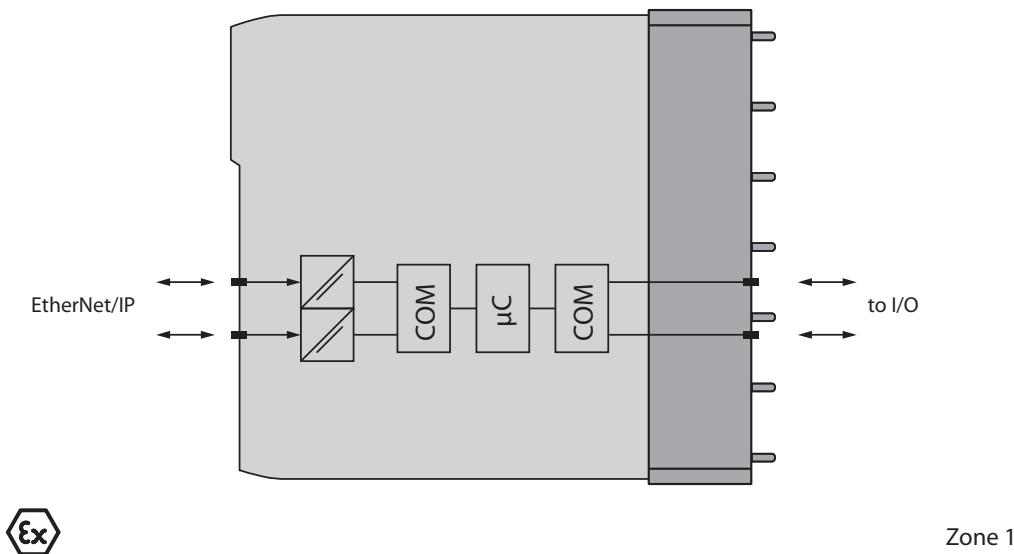
Type	Function	Features
Communication Adapter		
1718-AENTR	The EtherNet/IP™ adapter forms the interface between the I/O modules on the chassis and the process control system. Through this interface signals from NAMUR sensors, mechanical contacts, high-power solenoid drivers, power relays, sounders, and alarm LEDs are transported to the higher-level bus system.	<ul style="list-style-type: none"> Communication through EtherNet/IP Installation in suitable enclosures in Zone 1 HART communication through EtherNet/IP Interface between the I/O modules and the PCS/PLC
Digital Input		
1718-IJ	The device accepts digital input signals of NAMUR sensors or mechanical contacts from the hazardous area. Open and short-circuit line faults are detected.	<ul style="list-style-type: none"> Inputs Ex ia Installation in suitable enclosures in Zone 1 Module can be removed and inserted under power (RIUP) Line fault detection (LFD) Permanently self-monitoring 1-channel (1718-IJ); 8-channel (1718-IBN8B, 1718-IBN8) Input for frequency, counter, direction of rotation (1718-IJ) Digital input max. 15 kHz (1718-IJ) Dry contact or NAMUR inputs (1718-IJ, 1718-IBN8, 1718-IBN8B)
1718-IBN8		
1718-IBN8	The inputs are galvanically isolated from the bus and the power supply (EN 60079-11).	
Analog Input		
1718-IF4HB	The transmitter power supply feeds 2 and 3-wire transmitters. Active signals from separately powered field devices and 4-wire transmitters can be connected. Open and short-circuit line faults are detected. The intrinsically safe inputs are galvanically isolated from the bus and the power supply.	<ul style="list-style-type: none"> 4-channel Inputs Ex ia Installation in suitable enclosures in Zone 1 Module can be removed and inserted under power (RIUP) Line fault detection (LFD) Permanently self-monitoring Power supply for 2-wire transmitters with 4...20 mA (1718-IF4HB) Supply circuit 15V (20 mA) (1718-IF4HB) Input from active signals of 4-wire transmitters (1718-IF4HB) HART communication through field bus (1718-IF4HB) Converter for 2, 3, and 4-wire RTDs (Pt100...Pt1000), slide wire sensors, and so on (1718-IR4B) Converter for thermocouples and mV-signals (1718-IT4B)
1718-IR4B	The RTD converter accepts 2, 3, or 4-wire RTD signals (Pt100...Pt1000) and slide-wire sensors from the field. Ni100 through Ni1000 can also be connected. Open and short-circuit line faults are detected. The intrinsically safe inputs are galvanically isolated from the bus and the power supply.	
1718-IT4B	The thermocouple converter accepts thermocouple or mV signals from the field. Open circuit line fault alarms are detected. The inputs are galvanically isolated from the bus and the power supply (EN 60079-11). There is a functional isolation between the channels.	
Configurable Analog Input/Output		
1718-CF4H	The device is a configurable universal module. Each channel can operate in the following modes: <ul style="list-style-type: none"> As an analog input (AI) it feeds 2-wire transmitters. As an analog output (AO) it can drive proportional valves, I/P converters, or local indicators. The intrinsically safe signals are galvanically isolated from the bus and the power supply.	<ul style="list-style-type: none"> 4-channel Inputs Ex ia, Outputs Ex ia Installation in suitable enclosures in Zone 1 Module can be removed and inserted under power (RIUP) Analog input, analog output Supply circuit 21.5V (4 mA) HART communication through field bus Line fault detection (LFD): one LED per channel Permanently self-monitoring

1718 Ex I/O Product Features

Type	Function	Features											
Digital Output													
1718-OB2 1718-OB2L	The digital output features 2 independent channels. The device can be used to drive solenoids, sounders, or LEDs. Open and short-circuit line faults are detected. The outputs are galvanically isolated from the bus and the power supply. The output can be switched off through a contact. This can be used for bus-independent safety applications.	<ul style="list-style-type: none"> Outputs Ex ia Installation in suitable enclosures in Zone 1 2-channel Module can be removed and inserted under power (RIUP) Line fault detection (LFD) Permanently self-monitoring Output with bus-independent safety shutdown input 											
Power Supply													
1718-PSDC	The power supply provides power for the I/O modules and adapters that are mounted on the chassis. Power supplies can be connected in parallel to achieve redundancy. Input supply and output supply are galvanically isolated from each other (EN 61010-1).	<ul style="list-style-type: none"> Power supply for 24V DC Suitable for supplying 1 adapter and up to 20 I/O modules, depending on individual power consumption of the modules Installation in suitable enclosures in Zone 1 Module can be removed and inserted under power (RIUP) Use two power supplies for redundancy 											
Chassis													
1718-A20 1718-A10	Chassis are used to hold adapters, power supplies, and I/O modules. Fixed slots are reserved on the chassis for adapters and power supplies. Slots for I/O modules have equal status; functions can be arranged in any sequence, as required.	<ul style="list-style-type: none"> Max. 20 slots for I/O modules (1718-A20); Max. 10 slots for I/O modules (1718-A10); Redundancy (power supply) Installation in suitable enclosures in Zone 1 											
Chassis combinations	<table border="1"> <thead> <tr> <th></th> <th>Extension</th> </tr> <tr> <th>Base</th> <th>1718-A10</th> <th>1718-A20</th> </tr> </thead> <tbody> <tr> <td>1718-A10</td> <td>–</td> <td>–</td> </tr> <tr> <td>1718-A20</td> <td>X</td> <td>X</td> </tr> </tbody> </table>			Extension	Base	1718-A10	1718-A20	1718-A10	–	–	1718-A20	X	X
	Extension												
Base	1718-A10	1718-A20											
1718-A10	–	–											
1718-A20	X	X											
		Connection Cable											
1718-CBL3	1718-CBL3 chassis cordsets, for base chassis to extension chassis.	<ul style="list-style-type: none"> For connection of base and extension chassis 											
Placeholder													
1718-ARM	Placeholder modules are used to cover empty slots on the chassis and fix unused field wiring, if needed. This module does not reserve an address. This module can be placed in any sequence on the chassis.	<ul style="list-style-type: none"> Placeholder module Installation in suitable enclosures in Zone 1 Module can be removed and inserted under power (RIUP) 											

1718 Ex I/O Modules

Type	Catalog Number	Description	Page
Communication Adapter	1718-AENTR	Ex I/O EtherNet/IP Adapter	4
Digital Input	1718-IJ	Ex I/O Frequency/Counter Input	8
	1718-IBN8B	Ex I/O 8 Point Digital Input NAMUR Wide	
Analog Input	1718-IBN8	Ex I/O 8 Point Digital Input NAMUR	9
	1718-IF4HB	Ex I/O 4 Channel HART Analog Input Wide	11
	1718-IR4B	Ex I/O 4 Channel RTD Input Wide	
Configurable Analog Input/Output	1718-IT4B	Ex I/O 4 Channel Thermocouple Input Wide	
	1718-CF4H	Ex I/O 4 Channel HART Analog Configurable	17
	1718-OB2	Ex I/O 2 Point Digital Output 23V	21
Digital Output	1718-OB2L	Ex I/O 2 Point Digital Output 16.5V	
	1718-PSDC	Ex I/O DC Power Supply	24
Chassis	1718-A20	Ex I/O 20 Slot Chassis	26
	1718-A10	Ex I/O 10 Slot Chassis	
Connection Cable	1718-CBL3	Ex I/O Chassis Connection Cable 3 m (9.84 ft.)	28
Placeholder	1718-ARM	Ex I/O Empty Slot Cover	29

1718 Ex I/O Communication Adapter**1718-AENTR Ex I/O EtherNet/IP Adapter - Connection**

Zone 1

Technical Specifications

Attribute	1718-AENTR	
Supply		
Connection	Chassis bus	
Nominal voltage	U_n	12V DC, use only with the power supply module 1718-PSDC
Maximum safe voltage	U_m	60V DC (SELV/PELV)

Technical Specifications

Attribute	1718-AENTR
Power dissipation	4.4 W
Power consumption	4.4 W
Fieldbus interface	
Fieldbus type	EtherNet/IP
Ethernet interface	
Connection type	M12, through front connector
Transfer rate	10BASE-T, 100BASE-TX 100 MBit/s
Station connection	Directly to PCS or PLC or through hubs or switches
Cable type	SFTP in accordance with ISO/IEC 11801 for Cat 5e or better
Bus length	≤ 100 m (≤ 328 ft) per link
Addressing	DHCP or fixed IP address
Ethernet address	IP V4 address (default setting: 0.0.0.0, auto IP, DHCP)
HART Communication	Through Ethernet
Internal bus	
Connection	Chassis bus
Galvanic isolation	
Ethernet/other circuits	basic insulation according to IEC/EN 61010-1, rated insulation voltage 32V DC (SELV/PELV)
Insulation voltage	1500V AC according to IEEE 802.3u
Electrical isolation	
Power supply, internal bus/other circuits	basic insulation according to IEC/EN 61010-1, rated insulation voltage 30V DC

Technical Specifications

Attribute	1718-AENTR
Indicators/settings	
Status indicator	<ul style="list-style-type: none"> LED green (power supply): Solid green = operating; fast flashing = boot up or power on self test LED red (collective alarm): Solid red = internal fault; flashing = no established connections or connection timeout LED yellow (operating mode): slow flashing= active, normal operation; fast flashing = active, simulation
Directive conformity	
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1
Conformity	
Electromagnetic compatibility	NE 21
Degree of protection	IEC 60529
Fieldbus standard	IEEE 802.3
Environmental test	EN 60068-2-14
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Relative humidity	EN 60068-2-56
Ambient conditions	
Ambient temperature	-20...+60 °C (-4...+140 °F)
Storage temperature	-25...+85 °C (-13...+185 °F)
Relative humidity	95% noncondensing
Shock resistance	Shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	Frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles Frequency range 5...100 Hz; transition frequency: 13.2 Hz, amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Mechanical specifications	
Degree of protection	IP20 (module), a separate housing is required according to the system description
Connection	Through the chassis
Weight, approx	965 g (34.04 oz)
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 in)
Data for application in connection with hazardous areas	
EU-Type Examination Certificate Marking	PTB 19 ATEX 2007 U II 2G Ex db eb ib q IIC Gb
Directive conformity Directive 2014/34/EU	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2011
International approvals	
ATEX approval	PTB 19 ATEX 2007 U
IECEx approval Approved for	IECEx PTB 19.0025U Ex db eb ib q IIC Gb

Technical Specifications

Attribute	1718-AENTR
General Information	
System information	<p>The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed.</p> <p>For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.</p>
Supplementary information	<p>EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable.</p> <p>For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001.</p>

1718 Ex I/O Digital Input

Figure 1 - 1718-IJ Ex I/O Frequency Counter – Connection

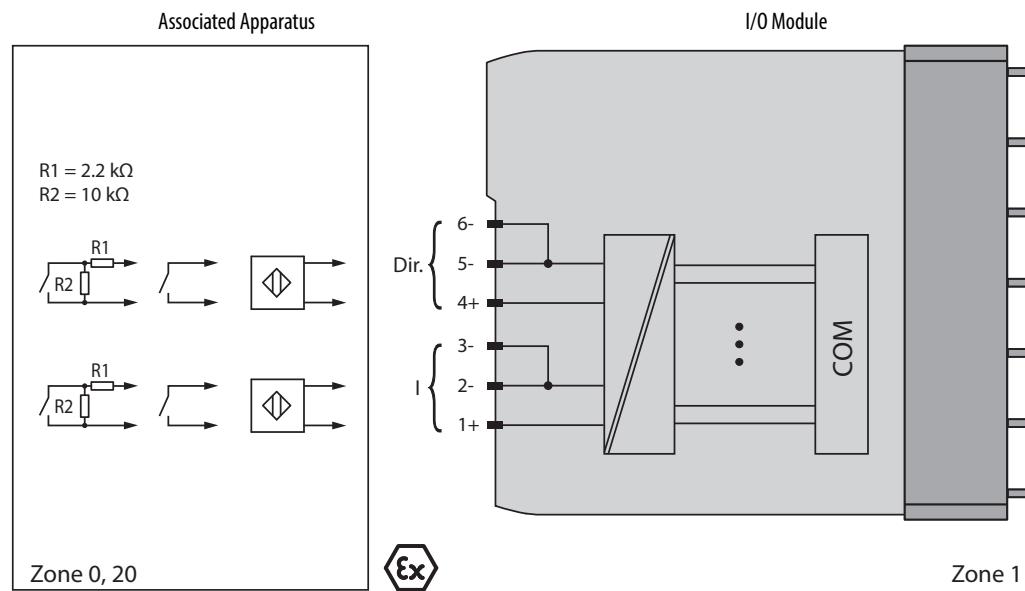


Figure 2 - 1718-IBN8B Ex I/O 8 Point Digital Input NAMUR-Wide – Connection

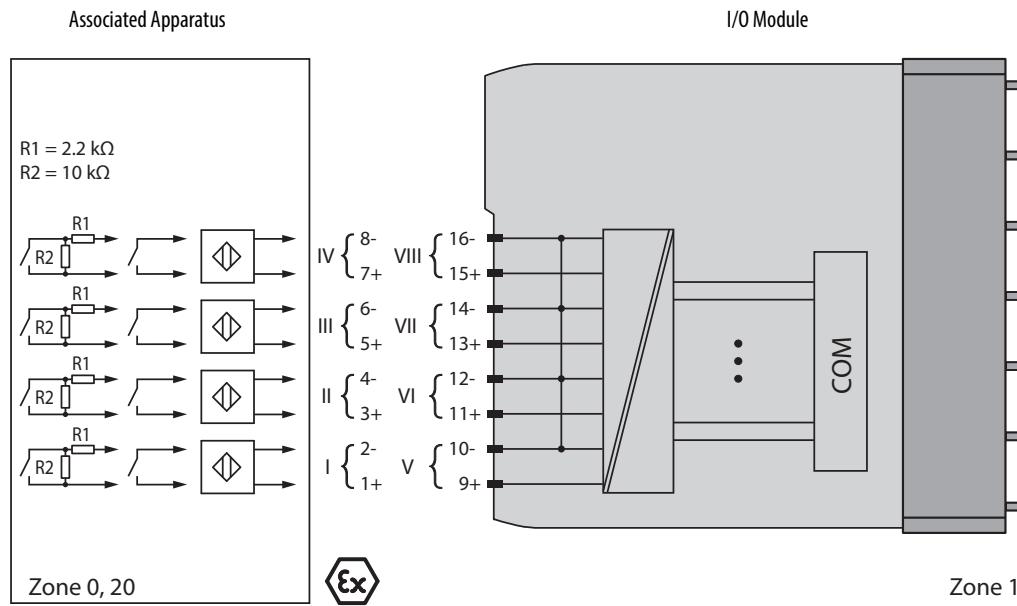
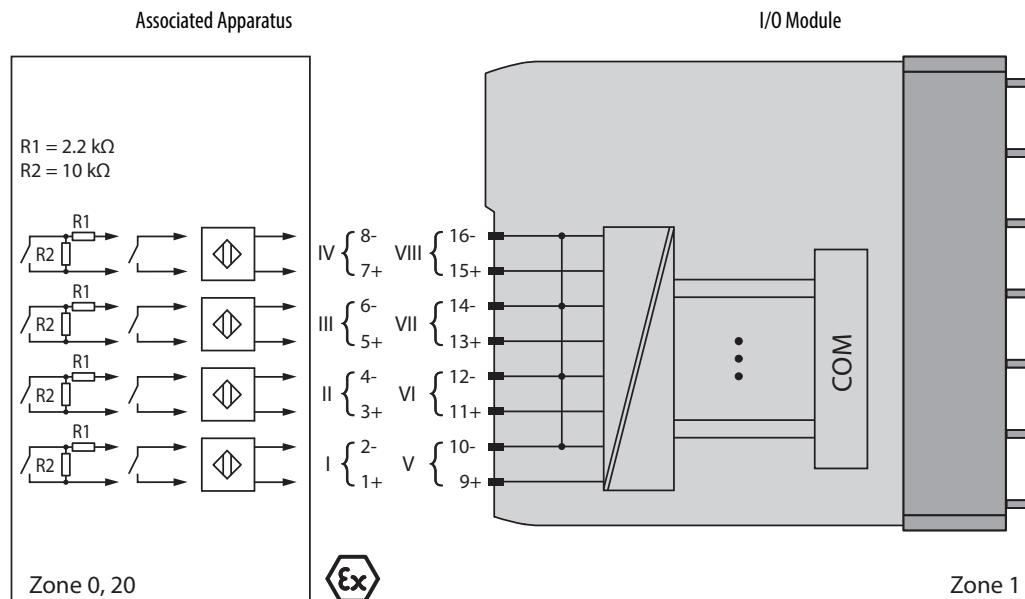


Figure 3 - 1718-IBN8 Ex I/O 8 Point Digital Input NAMUR – Connection

Technical Specifications

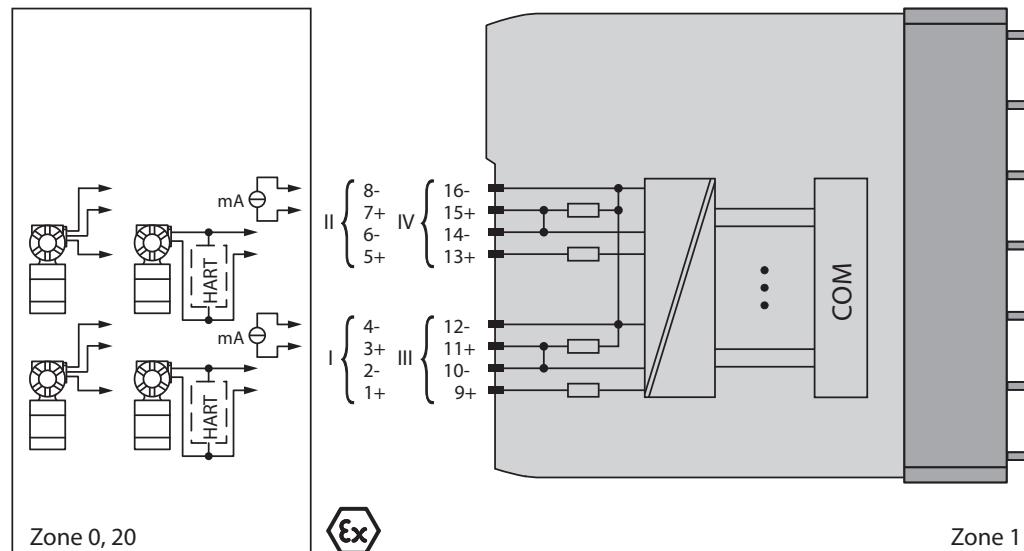
Attribute	1718-IJ	1718-IBN8B	1718-IBN8
Slots			
Occupied slots	1	2	1
Supply			
Connection	Chassis bus		
Rated voltage	U_r	Use only with the power supply 1718-PSDC	
Power consumption	0.7 W	1.0 W	1.5 W
Power dissipation	0.7 W	1.0 W	1.5 W
Internal bus			
Connection	Chassis bus		
Interface	Manufacturer-specific bus to standard adapter		
Digital input			
Number of channels	1	8	
Function	Counter, frequency, direction of rotation	–	
Suitable interface Connections	NAMUR sensor, volt-free contact		
Connection	channel I: 1+, 2-; direction: 4+, 5-	channel I: 1+, 2-; channel II: 3+, 4-; channel III: 5+, 6-; channel IV: 7+, 8-; channel V: 9+, 10-; channel VI: 11+, 12-; channel VII: 13+, 14-; channel VIII: 15+, 16-	Terminals 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8-, 9+, 10- , 11+, 12-, 13+, 14-, 15+, 16-
Rated values	According to EN 60947-5-6 (NAMUR)		
Switching point/switching hysteresis	1.2...2.1 mA / ± 0.2 mA		
Internal resistor	R_i	1 kΩ	
Line fault detection	Can be switched on/off for each channel through the Add-on Profile		

Technical Specifications

Attribute	1718-IJ	1718-IBN8B	1718-IBN8
Connection Short-circuit Open-circuit	mechanical switch with additional resistors (see connection diagram) proximity switches without additional wiring < 360 Ω < 0.35 mA		
Minimum pulse duration	in frequency + counter mode: 12.5 ms; otherwise 20 µs	1 ms	15 ms
Operating frequency	0...15 kHz in frequency mode 0...40 Hz in frequency + counter mode	–	
Indicators/settings			
Status indicator	Green power supply: supply Red: line fault		Green: supply Red: line fault, per channel
Coding	Optional mechanical coding through front socket		
Directive conformity			
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1		
Conformity			
Electromagnetic compatibility	NE 21		
Degree of protection	IEC 60529		
Environmental test	EN 60068-2-14		
Shock resistance	EN 60068-2-27		
Vibration resistance	EN 60068-2-6		
Relative humidity	EN 60068-2-56		
Ambient conditions			
Ambient temperature	-20...+60 °C (-4...+140 °F)		
Storage temperature	-25...+85 °C (-13...+185 °F)		
Relative humidity	95% noncondensing		
Shock resistance	Shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18		
Vibration resistance	Frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles Frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance		
Mechanical specifications			
Degree of protection	IP20 (module), a separate housing is required according to the system description		
Connection	Removable front connector with screw terminal (accessory) Wire connection for all terminals: 0.14...1.5 mm ² (26...16 AWG)		Removable front connector (accessory) Wiring connection by spring terminal only: 0.14...0.5 mm ² (26...20 AWG)
Weight, approx	420 g (14.82 oz)	940 g (33.16 oz)	420 g (14.82 oz)
Dimensions	28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in.)		57 x 107 x 132 mm (2.2 x 4.2 x 5.2 in.)
Data for application in connection with hazardous area			
EU-Type Examination Certificate Marking	Presafe 19 ATEX 14058 U Ex II 2(1)G Ex db eb q [ia Ga] IIC Gb II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I		Presafe 19 ATEX 14055 U Ex II 2(1)G Ex db eb q [ia Ga] IIC Gb II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I
Input Voltage Current Power	U_0 10.5V I_0 23.34 mA P_0 61.27 mW (linear characteristic)	14.9V 15.7 mA 58.2 mW (linear characteristic)	10V 13 mA 33 mW (linear characteristic)
Electrical/Galvanic isolation Input/power supply, internal bus	Safe electrical isolation according to EN 60079-11, voltage peak value 375V		

Technical Specifications

Attribute	1718-IJ	1718-IBN8B	1718-IBN8
Directive conformity Directive 2014/34/EU	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2012	EN 60079-0:2012 + A11:2013 EN 60079-11:2012 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015	
International approvals			
ATEX approval	Presafe 19 ATEX 14058U	Presafe 19 ATEX 14055U	
IECEx approval Approved for	IECEx PRE 19.0013U Ex db eb q [ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma] I	IECEx PRE 19.0010U Ex db eb q [ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma] I	
General Information			
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.		
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .		

1718 Ex I/O Analog Input**Figure 4 - 1718-IF4HB Ex I/O 4 Channel HART Analog Input Wide - Connection****Technical Specifications**

Attribute	1718-IF4HB
Slots	
Occupied slots	2
Supply	
Connection	Chassis bus

Technical Specifications

Attribute	1718-IF4HB
Rated voltage	U _n Use only with the power supply 1718-PSDC
Power dissipation	2.0 W
Power consumption	3.0 W
Internal bus	
Connection	Chassis bus
Interface	Manufacturer-specific bus to standard adapter
Analog input	
Number of channels	4
Suitable field devices	pressure converter, flow converter, level converter, temperature converter
Field device interface	
Connection	<p>2-wire transmitter (HART): Supply circuit: channel I 1+, 2-, channel II 5+, 6-, channel III 9+, 10-, channel IV 13+, 14-</p> <p>3-wire transmitter: Supply circuit: channel I 1+, 4-, channel II 5+, 8-, channel III 9+, 12-, channel IV 13+, 16-</p> <p>Measurement loop: channel I 3+, 4-, channel II 7+, 8-, channel III 11+, 12-, channel IV 15+, 16-</p> <p>4-wire transmitter (powered externally): Measurement loop: channel I 3+, 4-, channel II 7+, 8-, channel III 11+, 12-, channel IV 15+, 16-</p>
Transmitter supply voltage	≥15V at 20 mA; 21.5V at 4 mA
Input resistance	15 Ω
Line fault detection	Can be switched on/off for each channel through the Add-on Profile, configurable through the Add-on Profile
Short-circuit	> 21 mA
Open-circuit	< 1 mA
Transfer characteristics	
Deviation	
After calibration	0.1% of the signal range at 20 °C (68 °F)
Influence of ambient temperature	0.1%/10 K of the signal range
Resolution	12 Bit (0...26 mA)
Refresh time	100 ms
Indicators/settings	
Status indicator	Power status indicator (P) green: supply Diagnostic status indicator (I) solid red: module fault, flashing red: communication error, solid white: fixed parameter set (parameters from the adapter are ignored), flashing white: requests parameters from the adapter Status indicator (1...4) solid red: line fault (lead breakage or short-circuit)
Coding	Optional mechanical coding through front socket
Directive conformity	
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1:2006
Conformity	
Electromagnetic compatibility	NE 21:2007
Degree of protection	IEC 60529:2000
Environmental test	EN 60068-2-14:2009
Shock resistance	EN 60068-2-27:2009
Vibration resistance	EN 60068-2-6:2008
Relative humidity	EN 60068-2-78:2001

Technical Specifications

Attribute	1718-IF4HB
Ambient conditions	
Ambient temperature	-20...+60 °C (-4...+140 °F)
Storage temperature	-25...+85 °C (-13...+185 °F)
Relative humidity	95% noncondensing
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Mechanical specifications	
Degree of protection	IP20 (module), a separate housing is required according to the system description
Connection	Removable front connector with screw terminal (accessory) Wire connection by spring terminals: 0.14...1.5 mm ² (26...16 AWG) Wire connection by screw terminals: 0.08...1.5 mm ² (28...16 AWG)
Weight, approx	955 g (33.7 oz)
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 in.)

Data for application in connection with hazardous areas

EU-Type Examination Certificate Marking	Presafe 19 ATEX 14056 U Ex II 2(1)G Ex db eb q [ia Ga] IIC Gb II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I
Supply Voltage U ₀ Current I ₀ Power P ₀	27V 90 mA 588 mW (linear characteristic)
Input Voltage U ₀ Current I ₀ Power P ₀ Internal capacitance C _i Power L _i	0.7V 2.78 mA 2 mW (trapezoid characteristic curve) 242 nF 0 mH
Galvanic/Electrical isolation Input/power supply, internal bus	Safe electrical isolation according to EN 60079-11, voltage peak value 375V
Directive conformity Directive 2014/34/EU	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2012

International approvals

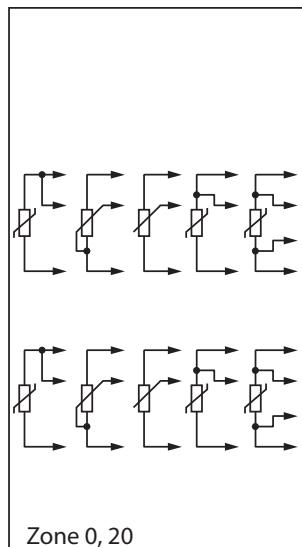
ATEX approval	Presafe 19 ATEX 14056 U
IECEx approval Approved for	IECEx PRE 19.0011U Ex db eb q [ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma] I

Technical Specifications

Attribute	1718-IF4HB
General Information	
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .

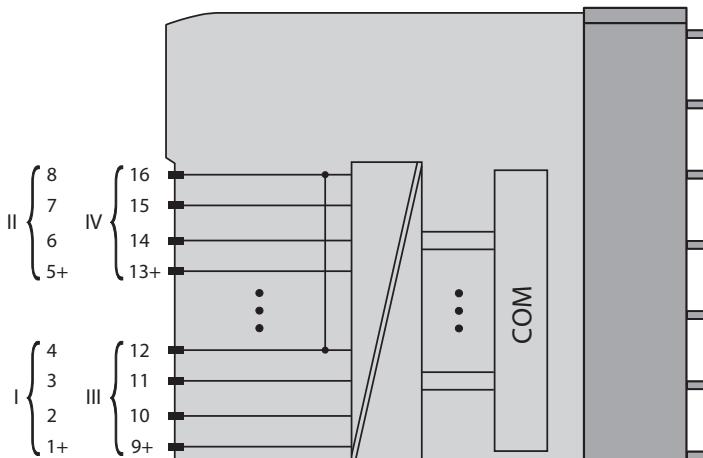
Figure 5 - 1718-IR4B Ex I/O 4 Channel RTD Input - Connection

Associated Apparatus



Zone 0, 20

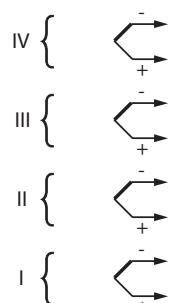
I/O Module



Zone 1

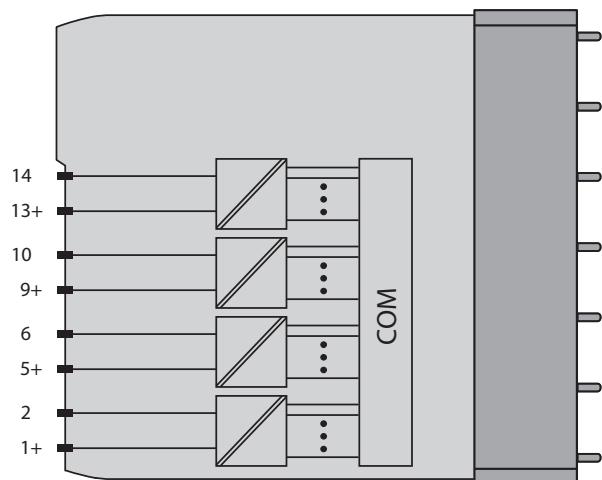
Figure 6 - 1718-IT4B Ex I/O 4 Channel Thermocouple Input - Connection

Associated Apparatus



Zone 0, 20

I/O Module



Zone 1

Technical Specifications

Attribute	1718-IR4B	1718-IT4B
Slots		
Occupied slots	2	
Supply		
Connection	Chassis bus	
Rated voltage U_r	Use only with the power supply module 1718-PSDC	
Power consumption	0.4 W	0.9 W
Power dissipation	0.4 W	0.9 W
Internal bus		
Connection	Chassis bus	
Interface	Manufacturer-specific bus to standard adapter	
Temperature input		
Number of channels	4	
Suitable field devices	resistance thermometer, slide-wire sensors, potentiometer	Thermocouple, mV source
Suitable sensors Sensor	—	thermocouples U, B, E, T, K, S, R, L, J, N, Pallaplat, and mV sources
Field device interface	2-wire sensor, 3-wire sensor, 4-wire sensor	—
Connection	channel I: resistance/potentiometer input 1... 4 channel II: resistance/potentiometer input 5... 8 channel III: resistance/potentiometer input 9... 12 channel IV: resistance/potentiometer input 13... 16	channel I: 1+, 2-; channel II: 5+, 6-; channel III: 9+, 10-; channel IV: 13+, 14-
Measurement range	Pt100 (18...390 Ω) (500 Ω including line resistance) Pt200 (37...780 Ω) Pt500 (92...1952 Ω) Pt1000 (185...3905 Ω) Ni100 (69...270 Ω) Ni500 (345...1350 Ω) Ni1000 (690...2700 Ω)	-65...+75 mV with LFD, -75...+75 mV without LFD
Temperature coefficient	Pt100 – 385 Pt200 – 385 Pt500 – 385 Pt1000 – 385 Ni100 – 618 Ni500 – 618 Ni1000 – 618	—
Slide-wire sensor	0...10 k Ω	—
Measuring current	200 μ A	—
Smallest span	50 Ω for 0.1% accuracy	5 mV for 0.1% accuracy
Linearity error	0.1%	
Conversion time	\leq 500 ms (4 channels) \leq 1 s (for 4x 3-wire Pt100)	\leq 300 ms (4 channels) without LFD \leq 600 ms (4-channel) with LFD
Compensation (reference junction CJC)	—	internal cold junction compensation
Busy after download	5...15 s	—
Lead resistance	\leq 50 Ω per strand	—

Technical Specifications

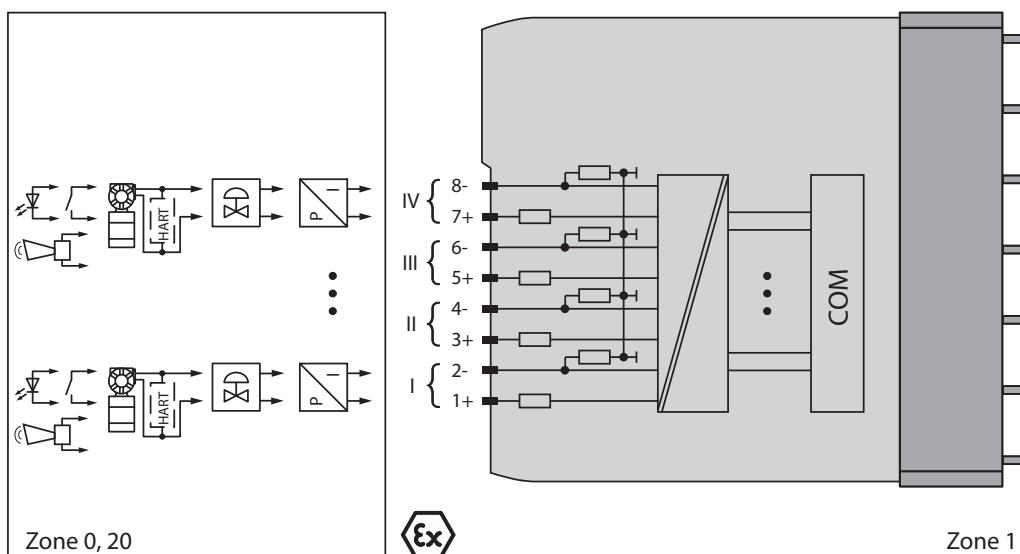
Attribute	1718-IR4B	1718-IT4B
Line fault detection	can be switched on/off for each channel through the Add-on Profile	can be switched on/off for each channel through the Add-on Profile
Short-circuit	< 10 Ω	–
Open-circuit	> 1 Ω	> 1 kΩ
Transfer characteristics		
Deviation		
Influence of ambient temperature	max. 0.1%/10 K	
Indicators/settings		
LED indicator	Status indicator solid green: supply Status indicator solid red: line fault, collective alarm Status indicator flashing: communication error	
Coding	Optional mechanical coding through front socket	
Directive conformity		
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1	
Conformity		
Electromagnetic compatibility	NE 21	
Degree of protection	IEC 60529	
Environmental test	EN 60068-2-14	
Shock resistance	EN 60068-2-27	
Vibration resistance	EN 60068-2-6	
Relative humidity	EN 60068-2-56	
Ambient conditions		
Ambient temperature	-20...+60 °C (-4...+140 °F)	
Storage temperature	-25...+85 °C (-13...+185 °F)	
Relative humidity	95% non-condensing	
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18	
Vibration resistance	frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance	
Mechanical specifications		
Degree of protection	IP20 (module), a separate housing is required according to the system description	
Connection	Removable front connector with screw terminal (accessory) Wiring connection by spring terminals: 0.14...1.5 mm ² (26...16 AWG) Wiring connection by screw terminals: 0.08...1.5 mm ² (28...16 AWG)	
Weight, approx	950 g (33.5 oz)	750 g (24.46 oz)
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 in.)	
Data for application in connection with hazardous areas		
EU-Type Examination Certificate Marking	Presafe 19 ATEX 14058 U Ex II 2(1)G Ex db eb q [ia Ga] IIC Gb II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	
Input		
Voltage	U _o	7.14V
Current	I _o	70 mA
Power	P _o	123 mW (linear characteristic)
		1V
		71 mA
		62 mW (trapezoid characteristic curve)

Technical Specifications

Attribute	1718-IR4B	1718-IT4B
Galvanic/Electrical isolation		
Input/power supply, internal bus	Safe electrical isolation according to EN 60079-11, voltage peak value 375V	safe electrical isolation according to EN 60079-11, voltage peak value 375V
Input/input	—	functional insulation according to IEC 60664-1:2007, rated insulation voltage 50V, testing voltage 500V
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2012	
International approvals		
ATEX approval	Presafe 19 ATEX 14058 U	
IECEx approval	IECEx PRE 19.0013U Approved for Ex db eb q [ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma] I	
General Information		
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .	

1718 Ex I/O Universal Input/Output (HART)

1718-CF4H Ex I/O Universal Input/Output (HART) - Connection



Technical Specifications

Attribute	1718-CF4H
Slots	
Occupies slots	1
Supply	
Connection	Chassis bus
Rated voltage U_r	Use only in connection with the power supply 1718-PSDC
Power dissipation	2.0 W
Power consumption	3.0 W
Internal bus	
Connection	Chassis bus
Interface	Manufacturer-specific bus to standard adapter
Analog input	
Number of channels	4
Suitable field devices	pressure converter, flow converter, level converter, temperature converter
Field device interface	2-wire transmitter
Connection	terminals 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8-
Transmitter supply voltage	$\geq 15V$ at 20 mA; 21.5V at 4 mA
Input resistance	15Ω
Line fault detection	Can be switched on/off for each channel through the Add-on Profile or the configuration assembly
Short-circuit	> 21 mA
Open-circuit	< 1 mA
Analog output	
Number of channels	4
Suitable field devices	Proportional valves, IP converters, on-site display
Connection	terminals 1+, 2-, 3+, 4-, 5+, 6-, 7+, 8-
Line fault detection	can be switched on/off for each channel through the Add-on Profile
Short-circuit	default setting: < 50 Ω configurable between 0 ... 26 mA
Open-circuit	deviation of preset output value > 0.5 mA
Load, max	750 Ω
Watchdog	output off 0.5 s after serious fault
Transfer characteristics	
Deviation	
After calibration	0.1% of the signal range at 20 °C (68 °F)
Influence of ambient temperature	0.1%/10 K of the signal range
Resolution	12 Bit (0...26 mA)
Refresh time, approx	100 ms (4 channels)
Indicators/settings	
LED indicator	Power indicator (P) solid green: supply Diagnostic indicator (I) solid red: module fault, flashing red: communication error, white: fixed parameter set (parameters from the adapter are ignored), flashing white: requests parameters from the adapter Status indicator (1...4) solid red: line fault (lead breakage or short circuit) Configuration indicator (AI, AO) solid white: selected channel mode
Coding	optional mechanical coding through front socket
Directive conformity	

Technical Specifications

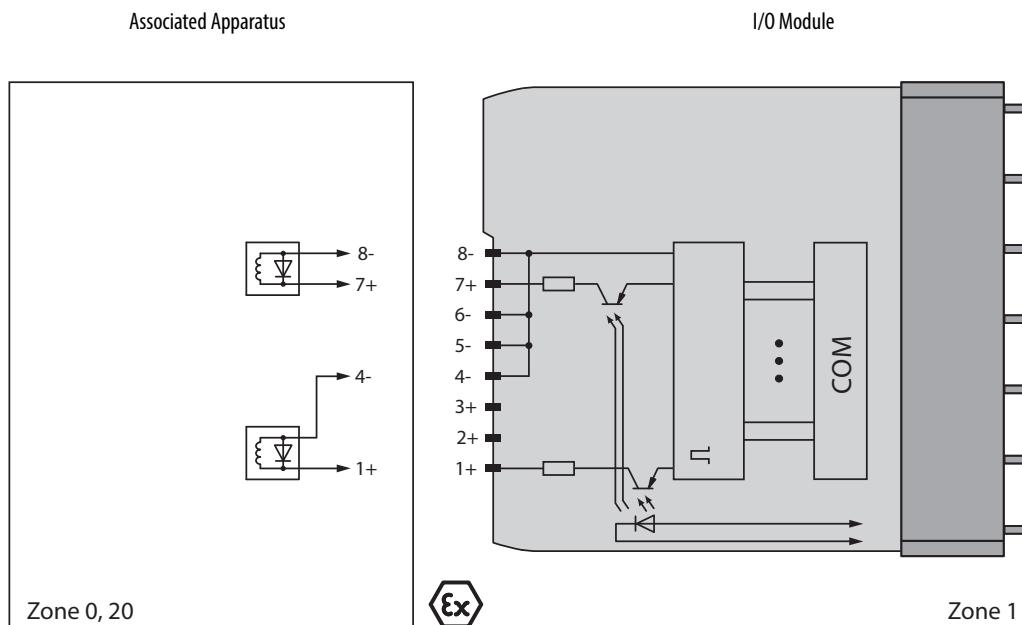
Attribute	1718-CF4H
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1
Conformity	
Electromagnetic compatibility	NE 21
Degree of protection	IEC 60529
Environmental test	EN 60068-2-14
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Relative humidity	EN 60068-2-56
Ambient conditions	
Ambient temperature	-20...+60 °C (-4...+140 °F)
Storage temperature	-25...+85 °C (-13...+185 °F)
Relative humidity	95% noncondensing
Shock resistance	Shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	Frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles Frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Mechanical specifications	
Degree of protection	IP20 (module), a separate housing is required according to the system description
Connection	Removable front connector with screw terminal (accessory) Wiring connection by spring terminals: 0.14...1.5 mm ² (26...16 AWG) Wiring connection by screw terminals: 0.08...1.5 mm ² (28...16 AWG)
Weight, approx	425 g (15 oz)
Dimensions	28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in.)
Data for application in connection with hazardous areas	
EU-Type Examination Certificate Marking	Presafe 19 ATEX 14057 U Ex II 2(1)G Ex db eb q [ia Ga] IIC Gb II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I
Supply Voltage Current Power	U _o I _o P _o 27V 87 mA 575 mW (linear characteristic)
Input Voltage Current Power Internal capacitance Internal inductance	U _o I _o P _o C _i L _i Ex ia 27V 87 mA 575 mW (linear characteristic) 0 nF 0 mH
Output Voltage Current Power	U _o I _o P _o Ex ia 27V 87 mA 575 mW (linear characteristic)
Galvanic isolation Rated voltage Input/power supply, internal bus Output/power supply, internal bus	U _m 250V field circuits to control and supply circuits Safe electrical isolation according to EN 60079-11, voltage peak value 375V Safe electrical isolation according to EN 60079-11, voltage peak value 375V

Technical Specifications

Attribute	1718-CF4H
Directive conformity Directive 2014/34/EU	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2012
International approvals	
ATEX approval	Presafe 19 ATEX 14057 U
IECEx approval Approved for	IECEx PRE 19.0012U Ex db eb q [ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma] I
General Information	
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .

1718 Ex I/O Digital Output

Figure 7 - 1718-OB2 and 1718-OB2L Ex I/O 2 Point Digital Output Connection



Technical Specifications

Attribute	1718-OB2	1718-OB2L
Slots		
Occupied slots	1	
Supply		
Connection	Chassis bus	
Rated voltage U_r	Use only in connection with the power supply 1718-PSDC	
Power dissipation	2.0 W	2.0 W
Power consumption	3.0 W	3.0 W
Internal bus		
Connection	Chassis bus	
Interface	Manufacturer-specific bus to standard adapter	
Digital Output		
Number of channels	2	
Suitable field devices	Solenoid valves, acoustic alarms, and visual alarms	
Connection	Channel I: 1+, 4/5/6/8-; channel II: 7+, 4/5/6/8-	
Current limit I_{max}	40 mA (single mode), 80 mA (parallel mode)	50 mA (single mode), 100 mA (parallel mode)
Internal resistor R_i	258 Ω (single mode), 129 Ω (parallel mode)	131 Ω (single mode), 66 Ω (parallel mode)
Open loop voltage U_s	23V	16.5V
Line fault detection	Can be switched on/off for each channel through the Add-on Profile, also when turned off ⁽¹⁾	
Short-circuit	< 50 Ω	
Open-circuit	> 10 kΩ	
Response time	10 ms (depending on bus cycle time)	
Watchdog	within 0.5 s the device goes in safe state, for example, after loss of communication	

Technical Specifications

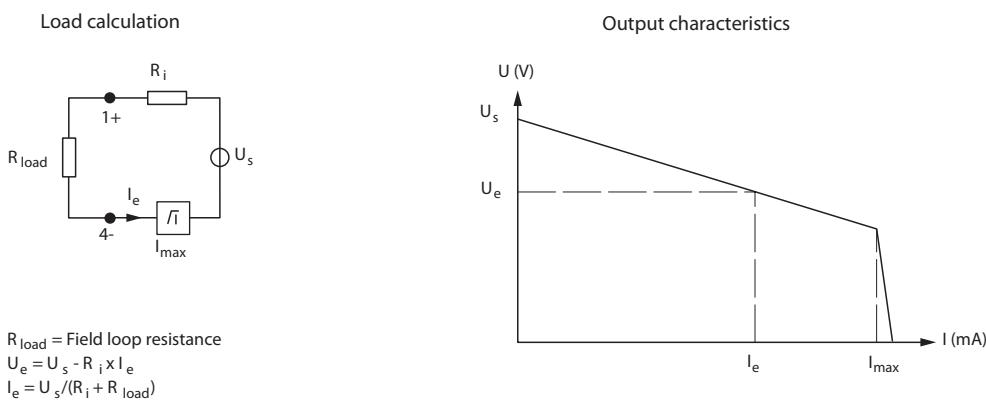
Attribute	1718-OB2	1718-OB2L
Indicators/settings		
LED indicator		Power indicator (P) solid green: supply Diagnostic indicator (I) solid red: module fault, flashing red: communication error, solid white: fixed parameter set (parameters from the adapter are ignored), flashing white: requests parameters from the adapter Status indicator(1, 2) solid red: line fault (lead breakage or short circuit), solid yellow: state of digital I/O (0/1) Mode indicator (M) solid white: Parallel operation of outputs
Coding	Optional mechanical coding through front socket	
Directive conformity		
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1	
Conformity		
Electromagnetic compatibility	NE 21	
Degree of protection	IEC 60529	
Environmental test	EN 60068-2-14	
Shock resistance	EN 60068-2-27	
Vibration resistance	EN 60068-2-6	
Relative humidity	EN 60068-2-56	
Ambient conditions		
Ambient temperature	-20...+60 °C (-4...+140 °F)	
Storage temperature	-25...+85 °C (-13...+185 °F)	
Relative humidity	95% noncondensing	
Shock resistance	Shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18	
Vibration resistance	Frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles Frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance	
Mechanical specifications		
Degree of protection	IP20 (module), a separate housing is required according to the system description	
Connection	Removable front connector with screw terminal (accessory) wiring connection by spring terminals: 0.14...1.5 mm ² (26...16 AWG) wiring connection by screw terminals: 0.08...1.5 mm ² (28...16 AWG)	
Weight, approx	425 g (15 oz)	
Dimensions	28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in.)	
Data for application in connection with hazardous areas		
EU-Type Examination Certificate Marking	Presafe 19 ATEX 14054 U Ex II 2(1)G Ex db eb q [ia Ga] IIC Gb II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I	
Output		
Voltage U_o	24.2V	
Current I_o	108 mA	
Power P_o	654 mW	
Internal capacitance C_i	12 nF	
Internal inductance L_i	0 mH	

Technical Specifications

Attribute	1718-OB2	1718-OB2L
Output (both channels parallel)		
Voltage	U_o 24.2V	17.8V
Current	I_o 216 mA	324 mA
Power	P_o 1308 mW	1442 mW
Internal capacitance	C_i 24 nF	24 nF
Internal inductance	L_i 0 mH	0 mH
Galvanic isolation		
Output/power supply, internal bus	Safe electrical isolation according to EN 60079-11, voltage peak value 375V	
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2012	
International approvals		
ATEX approval	Presafe 19 ATEX 14054 U	
IECEx approval	IECEx PRE 19.0009U	
Approved for	Ex db eb q [ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma] I	
General Information		
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .	

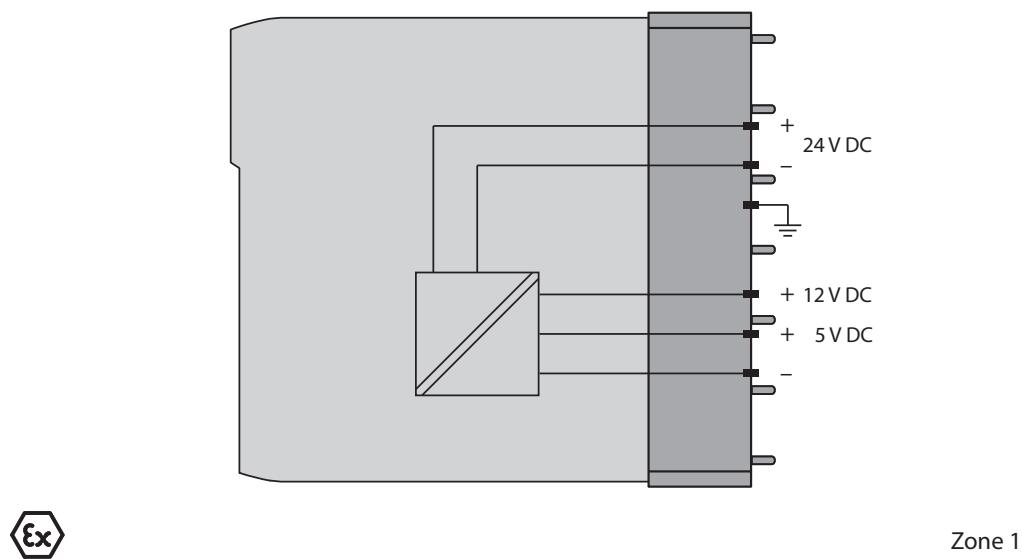
(1) When the channel is turned off, the line fault detection turns on the valve every 2.5 s for a duration of 2 ms to monitor line faults.

Figure 8 - 1718-OB2 and 1718-OB2L Output Data



1718 Ex I/O Power Supply

Figure 9 - 1718-PSDC Ex I/O DC Power Supply - Connection



Technical Specifications

Attribute	1718-PSDC
Slots	
Occupied slots	2
Supply	
Connection	wired to Ex e terminals through the chassis
Maximum safe voltage U_m	60V DC (SELV/PELV)
Input voltage range U	18...32V DC (SELV/PELV)
Power dissipation, approx.	4.7 W @ 100% load 3.8 W @ 50% load
Power consumption, max	≤ 44 W parallel connection with other 1718-PSDC (automatic power sharing)
Inrush current	6 A (30 ms) 15 A (20 μ s)
Output	
Voltage	12V DC + 4/- 2%
Power	39 W
Power dissipation	4.7 W at 100% load 3.8 W at 50% load
Indicators/settings	
Status indicator	Status indicator green: OFF in case of loss of 24V
Directive conformity	
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	
Galvanic isolation	EN 61010-1:2010
Degree of protection	IEC 60529

Technical Specifications

Attribute	1718-PSDC
Environmental test	EN 60068-2-14
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Relative humidity	EN 60068-2-56
Ambient conditions	
Ambient temperature	-20...+60 °C (-4...+140 °F)
Storage temperature	-25...+85 °C (-13...+185 °F)
Relative humidity	95% noncondensing
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Mechanical specifications	
Degree of protection	IP20 (module), a separate housing is required according to the system description
Weight, approx	970 g (34.22 oz)
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 in.)
Data for application in connection with hazardous areas	
EU-Type Examination Certificate Marking	II 2G Ex db eb q IIC Gb
Galvanic isolation Output/power supply, internal bus	EN 60950-1 (safety requirement < 60V, external power supply SELV/PELV)
Directive conformity Directive 2014/30/EU	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015
International approvals	
ATEX approval	Presafe 19 ATEX 14059U
IECEx approval	IECEx PRE 19.0014U
Approved for	Ex db eb q IIC Gb
General Information	
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .

1718 Ex I/O Chassis

Figure 10 - 1718-A10 Ex I/O 10 Slot Chassis - Assembly

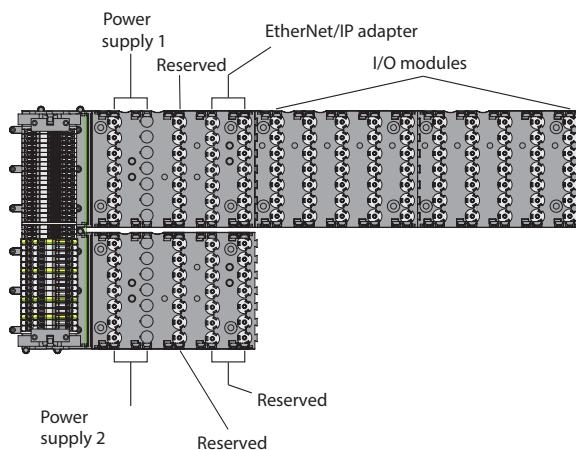
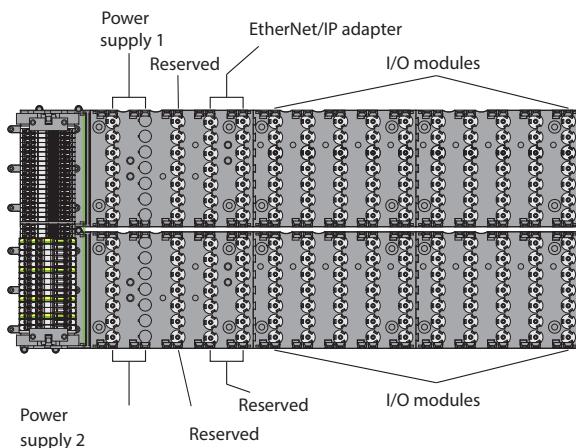


Figure 11 - 1718-A20 Ex I/O 10 Slot Chassis - Assembly



Technical Specifications

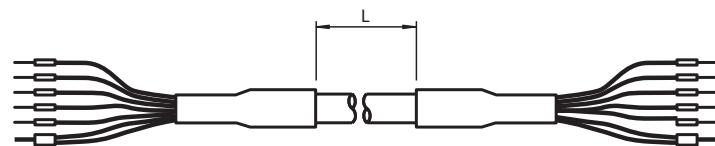
Attribute	1718-A20	1718-A10
Available slots		
Adapter	2	
Supply	2	
I/O modules (single width), max	20	10
I/O modules (dual width), max	10	5
Supply		
Maximum safe voltage U_m	60V DC (SELV/PELV) / 253V AC, depending on power supply	
Input voltage range U	18...32V DC (SELV/PELV) / 95...253V AC; depending on power supply	
Redundancy	yes	
Fieldbus interface		
Redundancy	none	
Directive conformity		
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1:2006	

Technical Specifications

Attribute	1718-A20	1718-A10
Conformity		
Degree of protection	EN 60529	
Ambient conditions		
Ambient temperature	-20...+65 °C (-4...+149 °F)	
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18	
Vibration resistance	frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance	
Mechanical specifications		
Degree of protection	IP30	
Weight, approx	2725 g	2735 g
Dimensions, (W x H x D)	511 x 212 x 142 mm, without modules	
Data for application in connection with hazardous areas		
EU-Type Examination Certificate Marking	BVS 11 ATEX E 041 X Ex II 2G Ex db eb mb IIC T4	
International approvals		
IECEx approval Approved for	BVS 11.0019X International: Ex db eb mb IIC T4; Ex db eb IIC T4	
INMETRO	Brazil: TÜV 14.1598X	
General Information		
Supplementary information	EU-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .	

1718 Ex I/O Chassis Connection Cable

Figure 12 - 1718-CBL3 Chassis Connection Cable



Technical Specifications

Attribute	1718-CBL3
General Specifications	
Number of pins	6
Connections	cable end
Ambient conditions	
Ambient temperature	-20...+60 °C (-4...+140 °F)
Storage temperature	-25...+85 °C (-13...+185 °F)
Mechanical specifications	
Cable Color Length L	gray 300 cm (9.84 ft)
Mass	530 g (18.7 oz)
International approvals	
Marine approval Bureau Veritas Marine	22449/B0 BV

1718 Ex I/O Placeholder

1718-ARM Ex I/O Placeholder Module

Technical Specifications

Attribute	1718-ARM
Slots	
Occupied slots	1
Supply	
Connection	Chassis bus
Rated voltage	U_r Use only in connection with the power supply 1718-PSDC
Ambient conditions	
Shock resistance	Shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Mechanical specifications	
Connection	Removable front connector with screw terminal (accessory) Wire connection by spring terminals: 0.14...1.5 mm ² (26...16 AWG) Wire connection by screw terminals: 0.08...1.5 mm ² (28...16 AWG)
Weight, approx	160 g (5.64 oz)
Dimensions	57 x 107 x 132 mm (2.2 x 4.2 x 5.2 in.)
General Information	
System information	The module may be installed only in the associated chassis 1718-Ax in Zone 1, 2, 21, 22, or outside the hazardous area. The corresponding declaration of conformity has to be observed. For use in hazardous areas (for example, Zone 1, 2, 21, or 22) the module must be installed in an appropriate enclosure.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For certification information and links to control drawings with complete entity parameter details, see the 1718 Certification Bulletin, publication 1718-CT001 .

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
1718 Ex I/O Installation Instructions, publication 1718-IN001	Describes how to install and wire the 1718 Ex I/O input and output modules.
1718 Ex I/O User Manual, publication 1718-UM001	Provides information on using the 1718 Ex I/O modules, chassis, and accessories.
1718 Certification Bulletin, publication 1718-CT001	Provides 1718 Ex I/O certification information and links to control drawings.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications .	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at rok.auto/literature.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Knowledgebase	Access Knowledgebase articles.	rok.auto/knowledgebase
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846