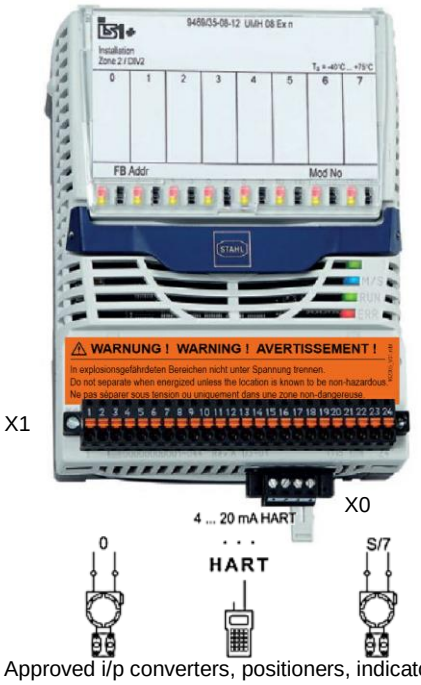
F 4830 503

Nonhazardous (Unclassified),
Class I, II, III, Division 2, Group A-D
or Class I, Zone 2, Group IIC/IIB
Hazardous (Classified) Locations



Approved i/p converters, positioners, indicators,
PNP proximity switches, solenoid valves, …

The Universal Module HART Type 9469/35-08-1* is designed to input analog signals from up to 8 transmitters and output a representative digital signal for processing by the IS1 CPU & Power Module. I is also designed to receive a digital signal from the IS1 CPU & Power and output a corresponding analog signal to positioners, loop distance, etc.. Up to 4 channels might be used as digital input/output also.

The module is for use in Nonhazardous (Unclassified), Class I, Division 2, Group A-D or Class I, Zone 2, Group IIC Hazardous (Classified) Locations according to NEC Article 501/504/505 or Canadian Electrical Code, CSA C22.
The system internal circuits are safely galvanically isolated from all input circuits up to a peak voltage of 375 V.
Maximum Safety Voltage for the Input circuits: U_{max} = 253 V AC

Notes:

1. Suitable separation must be maintained between input circuits connected to nonincendive circuits, AEx/Ex nA circuits and the I.S. input circuits of other I/O modules of the IS1 resp. IS1+ system. Use partition (SAP No. 162740 or 220101) for separation from I/O modules with I.S. circuits. Do not carry out work at the terminals without the partition plate in place.
2. Electrical Apparatus connected to an intrinsically safe system must not use or generate voltages > 253 V (U_{max})
3. Do not disconnect nonincendive circuits or AEx/Ex nA circuits unless area is known to be non hazardous. Mechanically secure the terminal blocks with the screws provided, to prevent from being detached unintentionally.
4. Only use BusRail extension Type 9494/L1-V* fitted aside the module. Do not mount the module fitted aside BusRail Begin or BusRail Begin types 9494/A2-B0 or 9494/A2-E0.
5. For Installation in Division 2 or Zone 2 see Certification drawing for IS1 resp. IS1+ Remote I/O System No. 9400 6 031 004 1 or 9400 6 031 006 1 as part of the documentation of the CPU & Power Modules.

Wiring Legend
X0 connection allocation

Function	X0 Terminal
24 V DC supply	1
Ground (GND) supply	2
“Plant STOP” input	3
“Plant STOP” ground	4

U_{supply} = 24 V (18 … 32 V) DC
$I_{max\ supply}$ = 2 A

Connector X0 is used to connect an external auxiliary power source to the supply for 3-wire PNP proximity switches (DI) or solenoid valves (24 V / 0.5 A) (DO). If the 24 V DC supply input at X0 is not used, the Output +24 V (A) at X1 is without power.

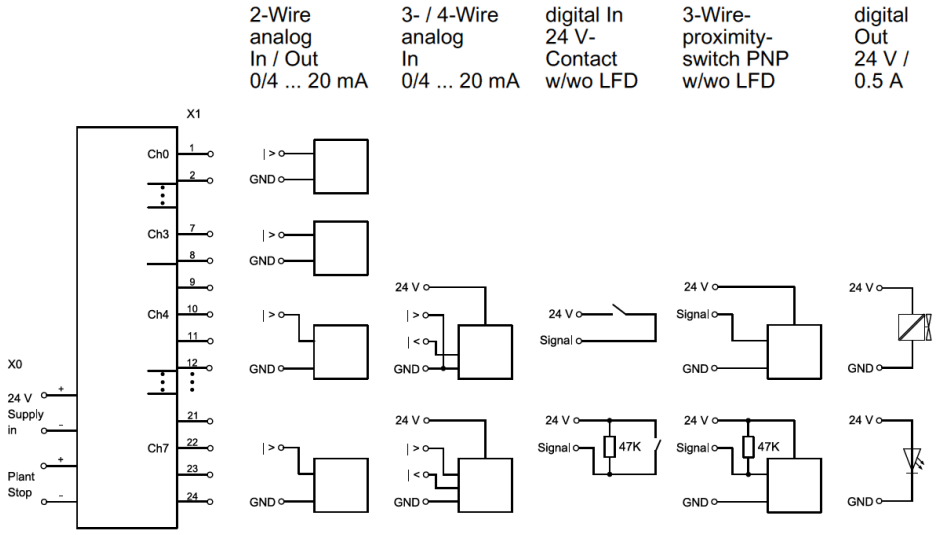
Two terminals exist for "Plant STOP". If terminals 3 and 4 are not used for "Plant STOP", they shall be bridged.

The GND lines of X0 and X1 are internally connected.
Parallel interconnection of outputs is not permissible.
For 3-wire proximity switches only PNP versions shall be connected, no NPN.

X1 connection allocation

	Terminal	X1							
Function	Channel	0	1	2	3	4	5	6	7
Output +24 V		-	-	-	-	9	13	17	21
Signal (I_{out} / U_{in})		1	3	5	7	10	14	18	22
Signal (I_{in})		-	-	-	-	11	15	19	23
Ground (GND)		2	4	6	8	12	16	20	24

Connection Diagram for Field Devices at X1:



			2018	Date	Name	Certification drawing
			Drawn by	22.05.	Bagusch	**Universal Module HART, Type 9469/35-08-1***
			Checked		Kaiser	
						9469 6 031 001 1
Version	Date	Name				Rep. f. / Rep. t.

Scale: none
Sheet: 1 of 1
Agency: FM
A4