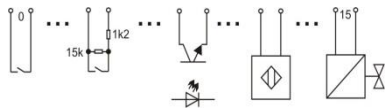
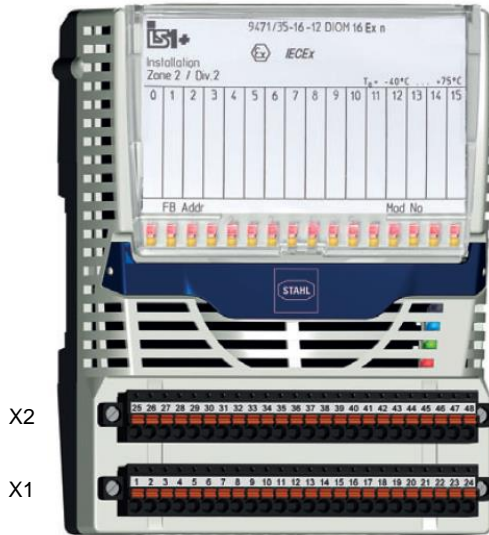


Nonhazardous (Unclassified),
Class I, II, III, Division 2, Group A-D
or Class I, Zone 2, Group IIC/IIB
Hazardous (Classified) Locations



Approved NAMUR proximity switches,
optocouplers, low power solenoid valves

The Digital Input Output Module Type 9471/35-16-11 is designed to receive up to 16 discrete input signals from dry contacts and NAMUR proximity sensors etc. and transfer them to the IS1 CPU & Power Module. It is also possible to drive low power solenoid valves. 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: $U_{max} = 253 \text{ V AC}$

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 $> 253 \text{ V } (U_{max})$
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

X1 and X2 connection allocation

Function	Terminal Channel	X1							X2								
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Not connected (NC)		1	4	7	10	13	16	19	22	25	28	31	34	37	40	43	46
Signal Input (E)		2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47
Ground (GND)		3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48

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

Connection Diagram for Field Devices at X1 and X2:

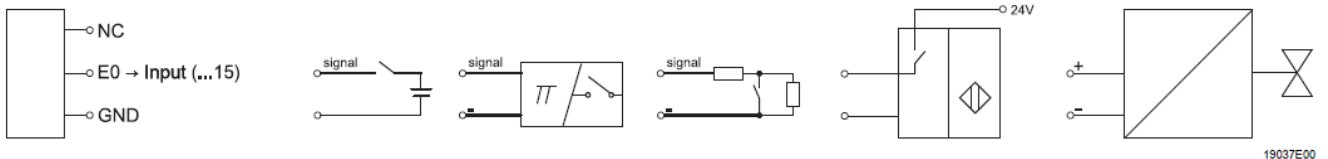
Active
0 / 24 V
signals

NAMUR
proximity
switch /
contact

Contact
with line
fault
detection

3-conductor
PNP (not NPN)
proximity switch

Low-Power
solenoid valve



2018	Date	Name	STAHL	Certification drawing Digital Input Output Module, Type 9471/35-16-11	Scale
Drawn by	22.05.	Bagusch			none
Checked		Kaiser			Sheet 1 of 1
Version	Date	Name		9471 6 031 001 1	Agency FM
			Rep. f.	Rep. t.	A4