

8-channel Digital Input/Output



818-DX-08

- ◆ configurable as a mixture of inputs and outputs
- ◆ inputs - dry contacts/proximity switches (NAMUR)
- ◆ outputs - low power intrinsically safe valves
- ◆ short and break detection
- ◆ isolation - input to bus, input to power
- ◆ common return for all inputs/outputs
- ◆ 8 I/O channel, EEx ia IIC

MODULE SPECIFICATION

See also System Specification

INPUT

No-load voltage8 V DC
 Short-circuit current3 mA to 4 mA
 Switching point in range1.4 mA to 1.8 mA
 Switching hysteresis0.2 mA
 Switching frequency< 100 Hz
 Short-circuit detection< 367 ohm
 Line-break detection< 0.2 mA
 Explosion protectionPTB 01 ATEX 2139

INPUT OR OUTPUT

Max. short-circuit current $I_0 = 44$ mA
 Voltage $U_0 = 9.6$ V
 Performance $P_0 = 106$ mW
 External inductance $L_0 = 2$ mH
 External capacitance $C_0 = 900$ nF

OUTPUT

No-load voltage < 8 V DC
 Effective current< 4 mA
 Internal resistance 320 ohm
 Switching frequency< 100 Hz
 Short-circuit detection< 1 kOhm
 Line-break detection< 0.2 mA

DIAGNOSTIC INFORMATION

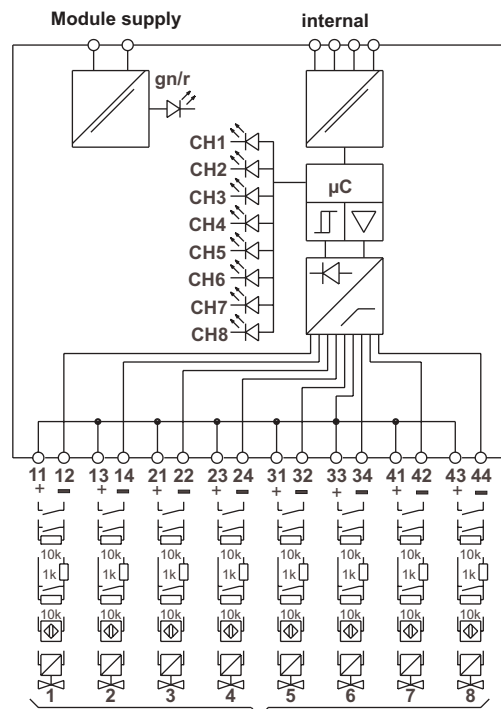
System / Module power onLED green / red
 Open (off)/ closed (on)LED 1 to 8, off / yellow
 Line break or short circuitLED 1 to 8, red

Via fieldbus

Break, shortper channel
 Simulationper channel
 Via fieldbusfor each I/O module

CHARACTERISTICS AT RATED CONDITIONS

De-bounce filter2 to 100 ms
 Total power consumption< 1.1 W



Inputs for :
 Dry contacts, NAMUR proximity switches
Output for valves from eg.:
 Samson (all standard valves with 6 V coil)
 Hoerbiger (only Piezo valve)
 Asco-Joucomatic (only Piezo valve)

