Digital inputs NAMUR, Series G3

240-320

2024-03-14

AVENTICS G3 Electronic Fieldbus Platform

In today's highly automated machines, the AVENTICS Series G3 electronic fieldbus valve system is replacing conventional hardwired solutions. It integrates communication interfaces to pneumatic valve valve system with input/output (I/O) capabilities. This next-generation electronic platform permits easy access to connections; it's simple to assemble, install, commission, and maintain. The G3's functionality allows programmable logic controllers to more efficiently turn valves on and off, and to channel I/O data from sensors, lights, relays, individual valves, or other I/O devices via various industrial networks. The G3 is the only pneumatic valve manifold that contains a graphical display used for configuration, commissioning, and diagnostics. It offers improvements in application, performance, and maintenance for original equipment manufacturers (OEMs) and end users alike.

Technical data

Version	I/O modules
Note	Socket (female), M12
E/A capable	connection with I/O
I/O module version	digital inputs NAMUR
Number of I/O connections	8 inputs
Number of inputs	8
Certificates	ATEX
ATEX ID	II (1G) Ex ia IIC Ga II (1D) Ex ia IIIC Da
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Operating voltage, actuators	24 V DC
Power supply for actuators	24 V DC
Total output for valves	4 A
Protection class	IP65
Diagnosis	Short circuit Broken wire
Electrical connection size	M12
Electrical connection number of poles	4-pin
Electrical connection coding	A-coded

Weight	0.284 kg

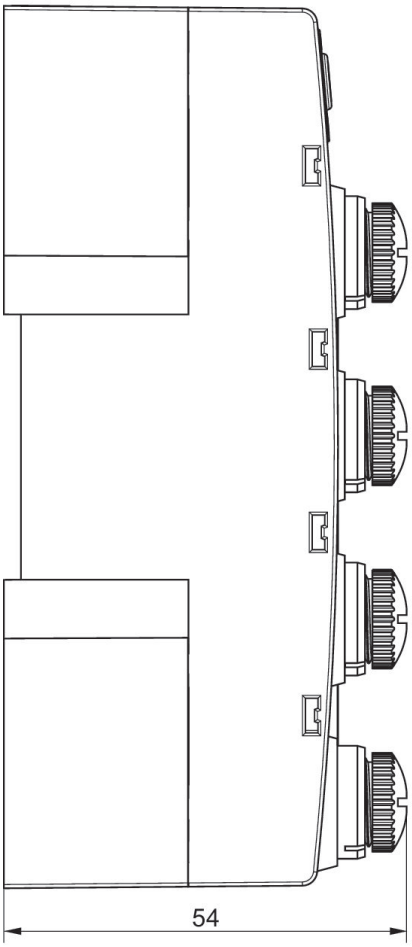
Material

Housing material	Polybutyleneterephthalate
Part No.	240-320

Technical information

NC (Normally closed): signal current(0) ≥ 2.1 mA, Signal current (1) ≤ 1.2 mA
Short circute monitoring < 100 Ω
Open / Broken wire Detection < 0.05 mA
Saftey Parameter output max. : Uo ≤ 9.6 V , Io ≤ 13 mA, Po 31 mA

Dimensions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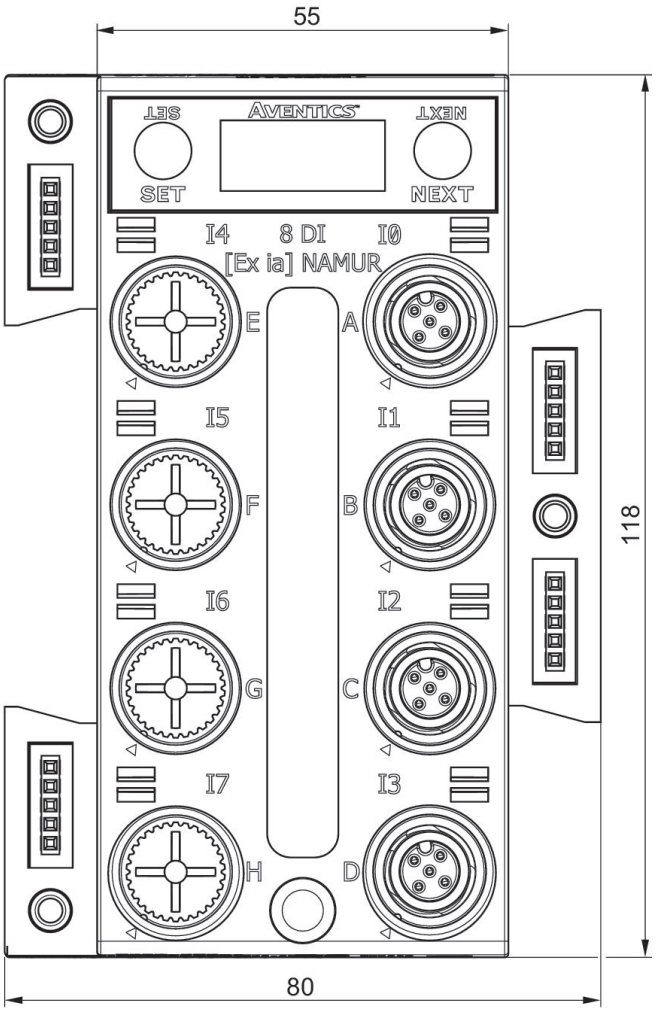
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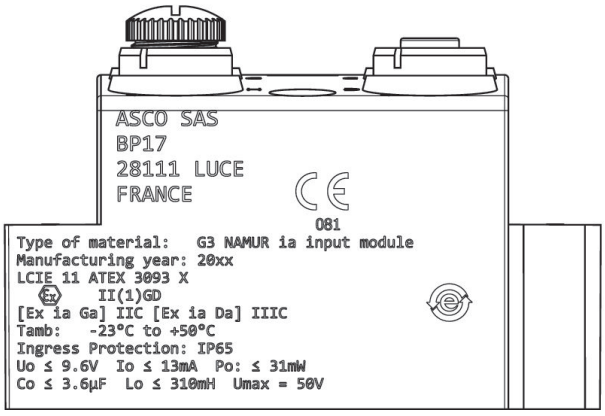
SET
AVENTICS
NEXT
SET
NEXT
I4
8 DI
I0
[Ex ia] NAMUR
E
A
I5
I1
F
B
I6
I2
G
C
I7
I3
H
D
118
80


ASCO SAS
BP17
28111 LUCE
FRANCE
CE
0081
Type of material: G3 NAMUR ia input module
Manufacturing year: 20xx
LCIE 11 ATEX 3093 X
II(1)GD
[Ex ia Ga] IIC [Ex ia Da] IIIC
Tamb: -23°C to +50°C
Ingress Protection: IP65
Uo ≤ 9.6V Io ≤ 13mA Po: ≤ 31mW
Co ≤ 3.6µF Lo ≤ 310mH Umax = 50V