



The BA3301 Pageant Analogue Input module has four individually isolated unpowered 4/20mA passive inputs.

Separate apparatus certification for the module allows it to be safely plugged into any one of the seven slots on a Pageant BA3101 operator display without the need for additional certification or approval.

If requirements change, a BA3301 module may be fitted on-site to an operator panel which has already been installed and commissioned.

This input module enables up to four 4/20mA signals representing temperature, pressure, flow or any other variable to be easily connected to a Pageant operator panel where they can be displayed and used for plant controls.

Each 4/20mA input is galvanically isolated from the other three inputs and from the Pageant Operator Panel's power supply allowing certification as a separate Ex ia circuit. The output safety parameter of each input are zero, which, together with the low input voltage drop, allow connection in series with almost any intrinsically safe 4/20mA loop in any gas or dust Zone.

Loop powered transmitters should be powered from a compatible galvanic isolator or Zener barrier. Terminals 2 and 4 of each BA3301 input are internally linked for joining the return 4/20mA wire as shown in the lower diagram.

BA3301

Pageant

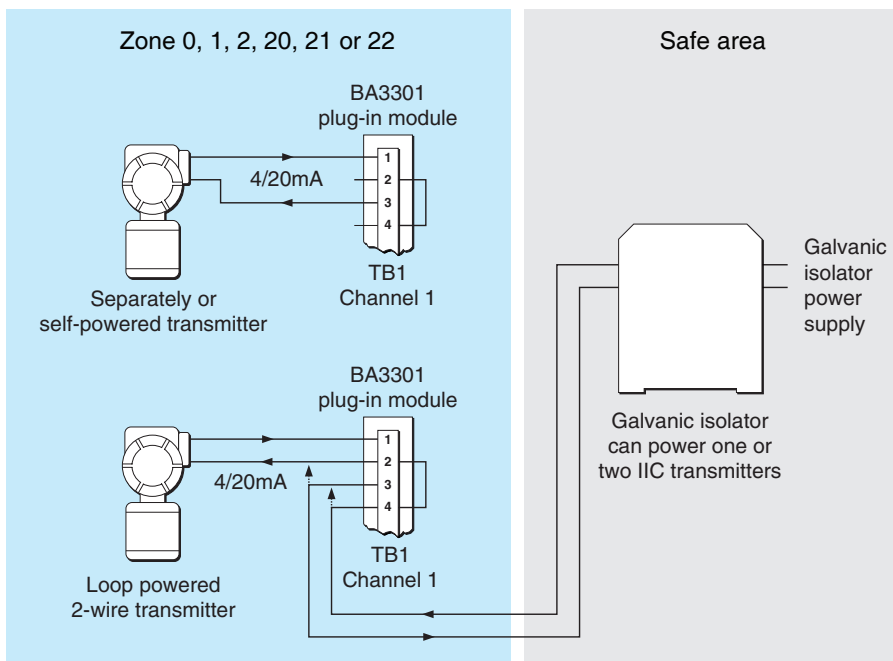
Analogue Input Module

4 x 4/20mA

Each intrinsically safe input may be connected to a loop in any gas or dust hazardous area

- ◆ Four 4/20mA unpowered inputs
- ◆ Module plugs into a Pageant BA3101 Ex ia intrinsically safe Operator Display.
- ◆ Each Ex ia input individually isolated.
- ◆ IECEx, ATEX & UKCA Ex ia certification
- ◆ 3 year guarantee

www.beka.co.uk/ba3301



Alternative wiring for self and loop-powered transmitters



BEKA

associates

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SPECIFICATION

Power supply From Pageant Operator Panel via CPU module

Module consumption 4% of available power

Input

For each of the four isolated input channels
Current 4/20mA

Voltage drop Less than 1.2V at 20°C
Less than 1.3V at -40°C

Overrange ±200mA or ±30V will not cause damage.

Isolation 500V to other inputs and supplies

Accuracy

At 20°C ±0.02%

Temperature effect on:

Zero Less than 25ppm
Span Less than 50ppm

Series mode rejection. Less than 0.05% error for 1mA pk to pk 50 or 60Hz interference.

Intrinsic safety

International IECEx

Code Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
-40°C ≤ Ta ≤ +65°C

Safety parameters for each 4/20mA input

Input

Ui 30V dc
Ii 200mA
Pi 0.84W

Output Complies with the requirements for *simple apparatus*.

Cert. No. IECEx CML 21.0101X

Europe ATEX and UK UKCA

Code Group II Category 1GD
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
-40°C ≤ Ta ≤ +65°C

Safety parameters for each input as IECEx

Cert. Nos. CML 21ATEX2830X
CML 21UKEX2831X

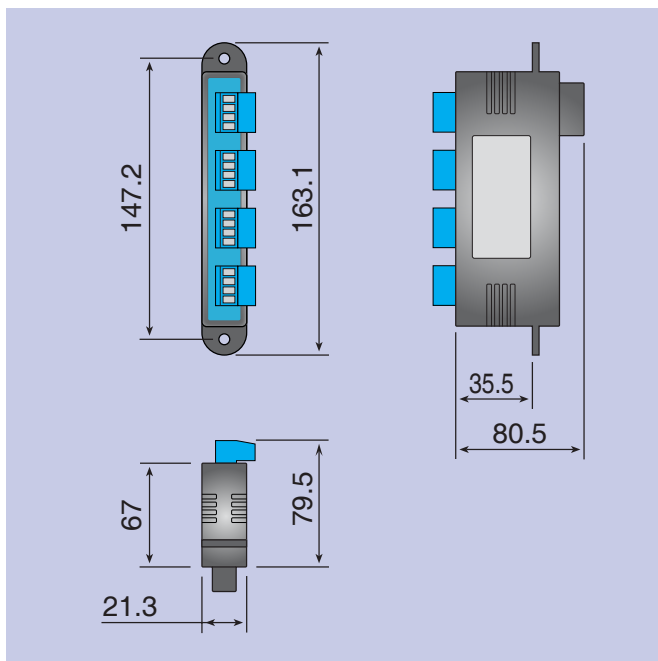
Environmental

Operating temp -40 to +65°C
Storage temp -40 to +85°C
Enclosure IP20
Humidity To 95% at 40°C non-condensing
EMC Complies with UK & European EMC Directives.

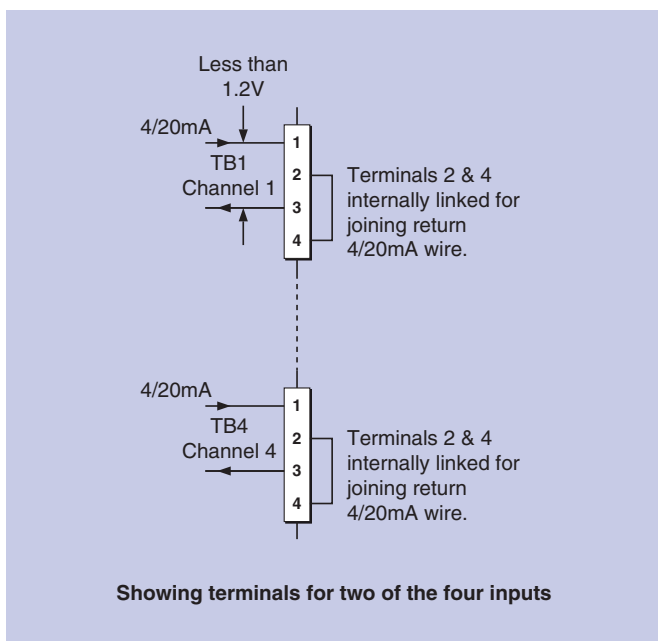
Mechanical

Terminals Screw clamp for 0.5 to 1.5mm² cable with a blue removable terminal block for each channel.
Weight 0.15kg

DIMENSIONS (mm)



TERMINAL CONNECTIONS



Reliability is ensured by component conformal coating, protection from incorrect connection and radio frequency interference. The module has been subjected to extensive vibration and thermal testing and is supported by a three year guarantee.

HOW TO ORDER

Please specify

Model number BA3301



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