

IN-ASG_XXXX-000

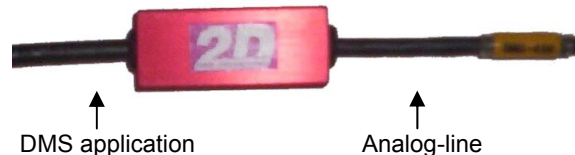
Strain gauge amplifier, adjustable gain 130 - 2000

Function

- 1 analog channel for one full DMS bridge application

Features

- Possible gain setting 130 - 2000
- Integrated bridge supply voltage
- Delivered with adjustable gain offset (= 0 - 5V) or fix gain offset (on customer request)



💡 Offset adjustable via “small” potentiometer (on housing back side)

Technical specifications

Electrical characteristics

Power supply.....	9 - 16 V
Current consumption@12V. (without bridge supply)	typ. 10 mA

DMS application

Bridge supply voltage.....	5 V
Min. bridge resistance.....	120 Ω
Filter type (low-pass filter) on customer request	12 / 24 dB / decade band-pass
Filter frequency (-3dB)..... customer definable.....	Hi / Lo Hz Yes
Possible gain ranges..... (other gains on request)	130-2000
Offset adjustable (standard) fix (on request).....	0 - 5 V Yes

Vibration resistance

Shock.....	40 G
during a time period of	10 ms
Vibration tested at.....	12 G
with a frequency of	1000 Hz

Mechanical characteristics

Dimensions.....	35 x 15 x 10 mm ³
Housing material.....	aluminium
Weight (with cables).....	12 g
Cable	
Analog-line	
type.....	Raychem, EPD
wire cross-section..	4 x AWG 26
length.....	300 mm
DMS application	
type.....	Raychem, VISHAY
wire cross-section..	4 x AWG 24
length.....	300 mm

Environmental data

Ambient operating range.....	0 to +75 °C
Humidity.....	5 to 95 %
Sealing class.....	IP 67

Ordering information

Art.No.:.....	IN-ASG_XXXX-000
Possible gain values 130 up to 2000	←

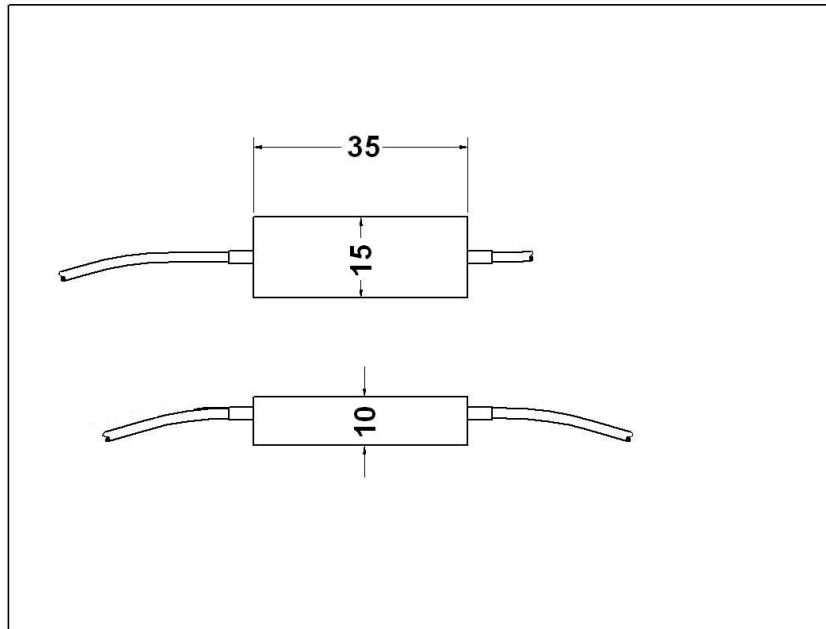
The specifications on this document are subject to change at 2D decision. 2D assumes no responsibility for any claims or damages arising out of the use of this document, or from the use of modules based on this document, including but not limited to claims or damages based on infringement of patents, copyrights or other intellectual property rights.

2D Debus & Diebold Meßsysteme GmbH
<http://www.2D-datarecording.com>
<http://www.2D-Kit-System.com>
mail@2D-datarecording.com

IN-ASG_XXXX-000

Strain gauge amplifier, adjustable gain 130 - 2000

Dimensions



Connector layout

Connector type

DMS / SG application

Pin	Name	Description	Color
1	V-	Bridge ground	black
2	V+	Bridge supply	red
3	S-	Negative signal	green
4	S+	Positive signal	white

Mating plug



Binder 719, 4 PM
(front side)

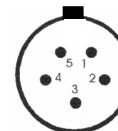
Plug at module



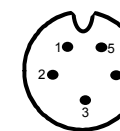
Binder 719, 4 PF
(front side)

Analog line

Pin	Name	Description	Color
1	AGND	Analog Ground	black
2	n.c.	Not connected	-
3	+12V	Power supply	red
4	n.c.	Not connected	-
5	Signal	Analog signal	white



Binder 719, 5 PF
(front side)



Binder 719, 5 PM
(front side)



Possible options concerning connector and cable on customer request !

Please note:

For the first order of special customer options please use the following order code: **IN-ASG_XXXX-000**
 Replace the XXXX with the range of your sensor. After the first order you will get from 2D a uniquely order code for your next orders.