Technical Datasheet



Performance Series

Bellows Operated Pressure Switch Models: 201, 202, 203 & 281

Key Features

- Precision stainless steel mechanism for arduous atmospheres and high humidity.
- Set point adjustable over whole range against calibrated scale with tamperproof adjuster.
- Weatherproof and Flameproof models ATEX and IECEx.
- Safety vented or blow out device as standard.
- NACE MR-01-75 compatibility.
- Hermetically sealed microswitch option.
- Models for fixed switching differential, adjustable differential and HI-LO operation.
- Precise and accurate operation guaranteed by use of hydraulic formed bellows, or capsule stack.
- Ranges available up to 75 bar (1,000 psi). Static pressure up to 100 bar (1,400 psi).

Series Overview

- Designed in the mid-1970s and developed over subsequent years, the Performance Series switch range offers users the broadest range of options, the highest levels of set-point repeatability and the confidence of long term performance that a mature product such as this can prove.
- The models 201/202/203/281 Performance Series pressure switches utilise bellows type sensor that offer a very linear response to pressure change. This sensor, coupled with a precision stainless steel mechanism designed to minimise friction in the moving parts, helps deliver the market leading performance customers have come to expect from the series.



Product applications

The 201 Performance Series is suitable for a wide range of applications in:

- Oil & Gas
- Chemical
- Petrochemical
- Refining
- Power
- Food Industry

The choice of models available ensures that the 201/2/3/281 Performance Series is suitable for use in:

- Corrosive atmospheres
- Resistant to chemical attack

How can we help you?

Delta Controls' offers fast, efficient and knowledgeable support when and where you need it. Please visit our web site at www.delta-controls.com to find your local support centre or call us on: +44 (0) 1252 729140

How to order

Switches can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.

Enclosure Table 1					
Model Table 2					
Electrical Entry Table 3		J			
Material of Wetted Part Table 4					
Range Table 5	 	 			
Switch Table 6					
Process Connection Table 7					
Options & Treatments Table 8					
Special Engineering Table 9]

NOTE: Options shaded in the following tables are the most common options and are available on the quickest lead-times and at the lowest cost.

NOTE: Only the most common options are shown in this data sheet. Should you require a feature that is not shown, please contact your local sales office for further details.

Technical Specification

	Accuracy:	Set point repeatability ± 0.5% of span at 20°C / 68°F ambient. Scale accuracy ± 2% of full scale.
	Storage Temperature:	-25 to +60°C / -13 to +140°F
	Ambient Temperature:	-25 to +60°C / -13 to +140°F Special build is also available for temperatures down to -60°C (-76°F)
	Maximum Process Temperature:	Subject to appropriate installation practice, the component parts will withstand up to +60°C (+140°F). For process temperatures up to +120°C (+248°F), order WETTED PARTS Code R (Table 4). For higher temperatures, refer to special engineering.
- 04	Maximum Enclosure Temperature:	Instrument has not been tested regarding maximum temperature with respect to dust layer <u>above 50 mm</u> . Therefore product is not suitable for operating under excess layer of dust.
5	Enclosure classification:	IP66 / NEMA 4X / Flameproof Ex d
07, 20	Switch output:	SPDT or DPDT snap action microswitch (standard) Hermetically sealed (optional)
, r	Electrical rating:	See Table 6
0. P	Process Connection:	Rc 1/4 (BSP), 1/4 NPT Internal, 1/2 NPT Internal & 1/2 NPT External
INIOUG	Approximate Weight:	Enclosures: " W & N " 3.1kg/6.8lb; " A & O " 3.9kg/8.6lb; " H " 4.6kg/10.2lb; " K " 9.4kg/20.7lb; " M " 9.9kg/21.8lb.

Enclosure	TABLE 1 Image: Table 1					
FINISH	ENCLOSURE TYPES	Code				
All enclosures except Type A are finished in light grey epoxy resin paint.	Weatherproof Enclosures					
Special finishes to order.	General Purpose The basic enclosure is pressure die-cast in zinc alloy, offering weather protection not less than NEMA 4 + 13/IP66.					
INTRINSIC SAFETY Because of the low voltages and currency of I.S. circuits, we recommend using gold and/or sealed contacts.	For Aggressive Atmospheres Investment cast enclosure in austenitic stainless steel with weather protection not less than NEMA 4X + 13/IP66.	A				
	Flameproof Enclosures Category 2 (Zone 1)					
NOTE: Enclosure Codes W & A with range BC, C6, E1 and E8 (BU, CP, E4, E7) have weather protection reduced to	ATEX Ex db IIC T6 (-60 to +40°C), T4 (-60 to +80°C) II 2 G D Gravity die-cast enclosure in aluminium-silicon alloy. Suitable for outdoor use, IP66 / NEMA 4.	н				
IP54. In the interests of reliability not all enclosures are available with all wetted	IECEx Ex db IIC					
parts materials. See Table 4.	ATEX Ex db IIC T6 (-60 to +40°C), T4 (-60 to +80°C) II 2 G DAs Code H, but sand cast in high quality grey iron.II 2 G D					
Temperatures in Table 1 refer to	IECEx Ex db IIC					
limitations for certified enclosures.	Exn Enclosures Category 3 (Zone 2).					
See TECHNICAL SPECIFICATION	Type of Protection Exn II T6 (-25 to +60°C), T4 (-25 TO +80°C)II 3 G DAs code 'W' but Exn.Weatherproof to NEMA 4/IP66.Limited switching facility (see Table 6).	Ν				
	As 'N' but with investment cast enclosure in austenitic stainless steel as 'A'.	0				

Models

TABLE 2

NOTE:

Models 202, 203 are not supplied with all materials of wetted parts. See table 4.

	Code
Fixed Switching Differential See Tables 10A & 10C. Basic model giving close, fixed switching differential using proprietary microswitch operated by high integrity stainless steel mechanism. Set point field adjustable over full range against calibrated scale. SPDT & DPDT options available.	201
Adjustable Switching Differential (Limited Span) See Tables 10B & 10D. Achieved by special microswitch with built in adjuster, SPDT only. Not available with enclosure code N or O.	202
Adjustable Switching Differential (Wide Span) See Tables 10B & 10D. Falling set point adjustable against a calibrated scale. Rising reset point adjustable to increase switching differential by up to 50% of range.	203
HI-LO Switching (Adjustable Gap) See Tables 10A & 10C. Two individual set points and separate electrical circuits, with independent adjustment against calibrated scale.	281

Electrical Entry

Adaptors are available for other popular thread sizes.

Enclosures 'W' and 'N'

Standard option code 1(22mm dia) is provided with a nylon 22/20 reducer and fibre washer suitable for a standard M20 cable gland and back nut. Option code 0 elbow adaptor is factory fitted. Adaptor kits may also be provided retrospectively to fit at site if required. Ask for details. See diagrams for dimensions.

'W' and 'N' SAFETY NOTE

If a metal cable gland is site fitted it must either be earthed locally or an earth/gland plate must be used to connect the body of the gland at the enclosure earthing point. Earth/gland plates can be provided either factory fitted or in kit form for site assembly. Ask for details.

Material of Wetted Parts

Not all ranges are available with all materials. Refer to Table 5 for availability.

TABLE 3

	Code
Enclosures W & N: Clearance for 20mm (3/4 in) outside dia conduit.	1
Enclosures H, K, A & O: M20 x 1.5 ISO thread (direct)	0
Enclosures H & K: M20 x 1.5 ISO thread, dual entry.	5
Enclosures H & K: 3/4-NPT INT.	3
Enclosures H & K: 1/2-NPT INT.	2
Enclosures H & K: 3/4-NPT INT dual entry.	6
Enclosure W: M20 x 1.5 elbow adaptor.	0
Enclosure N: M20 x 1.5 straight adaptor (Approved).	0

TABLE 4

	Code
Stainless steel bellows/capsule stack and process connection all welded fabrication.	2
Nickel Alloy (Monel) bellows/capsule stack and process connection. Suitable for NACE MR-01-75. All welded fabrication.	М

Range

psi

-14.5 to +20

1 to 5

3 to 15

1 to 20

2 to 60

3 to 100

4 to 200

85 to 400

140 to 600

In.Hg

-30 to 0

 $In.H_2O$

-5 to 5

1 to 10

2 to 50

Code

A0

BC§'

G3

C6§ E1*

E8

G1*

G5

J0

M1

P6

Q2

R3

Setting Ranges

TABLE 5

P_{max}

psi

20

15

60

15

15

15

20

30

100

125

300

600

1400

1400

bar

-1 to 1.5

0.2 to 1

0.1 to 1.5

0.2 to 4

0.2 to 7

0.3 to 15

6 to 25

10 to 40

mbar

-1000 to 0

-12.5 to +12.5

3 to 25

5 to 120

50 to 350

bar

1.4

1

4

1

1

1

1.4

2 8

9

20

40

100

100

P_{max} = maximum working pressure

Ranges BC, C6 & E1 (BU, CP, E4) not available on Model 202. Range G1 (GF) is only available as Models 201/281.

§ Range BC & C6 (BU, CP) not available on HI-LO model (281).

15 to 75		S7	200 to 1000		
Avail	ability material	code (ta	ble 4)	Range	
1	2		М	code	
	\checkmark		†	A0/AB	
				BC/BU	
\checkmark	\checkmark		†	G3/GK	
				C6/CP	
\checkmark	\checkmark			E1/E4	
	\checkmark		\checkmark	E8/E7	
			\checkmark	G1/GF	
	\checkmark		\checkmark	G5/GP	
				J0/J3	
\checkmark	\checkmark		\checkmark	M1/M4	
\checkmark				P6/PB	
	\checkmark			Q2/QB	
	\checkmark		\checkmark	R3/RB	
				S7/SB	

† Available as Special Engineering.

Code

AB

BU§*

GK

CP§* E4* E7

GF*

GΡ

J3

M4

PΒ

QB

RB

SB

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Switch Options

TABLE 6

A much wider variety of switching options can be engineered to customer's requirements for Model 201 switches including heavy DC, manual latching, pneumatic output etc. On Models 202, 203 & 281 only the switching options specified can be supplied. Please consult our engineers for further information.

Model 201								
		IEC947-5-1 / EN 60947-5-	1 RATING	ì				
CSA RATING (RESISTIVE) § see note	Designation &	Rated operational current _{I e} (A)	Ui	Uimp	VA F	Rating	Contact	PDT 00 PDT 00 PDT 02 PDT 04 PDT* 08 PDT* 0G PDT 0C PDT 0D PDT 0C PDT 0D PDT 0C PDT 0D PDT 0D PDT 0D PDT 20 PDT 20 PDT 20 PDT 24 PDT* 2G PDT* 2G PDT* 2G
5 Amps @ 110/250V AC Light	Utilisation Category AC14 D300	at rated operational voltage _{U e} 0.6/0.3A @ 120/240 V AC			Make 432	Break 72	SPDT	00
Duty for AC only	DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.8kV	432 28	28	DPDT	
5 Amps @ 110/250V AC & 2 Amps @ 30V DC General purpose precision	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.8kV	432 28	72 28	SPDT DPDT	
1 Amp @ 125V AC & § 100mA @ 30V DC Gold Alloy contacts for low voltage switching		1A @ 125 VAC RESISTIVE (IEC 105	58-1 / EN 61	1058-1)			SPDT DPDT	-
§ 5 Amps @ 110/250V AC & 5 Amps @ 30V DC Environmentally sealed	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.5kV	432 28	72 28	SPDT* DPDT*	
§ 1 Amp @ 30V AC & 30V DC Environmentally sealed with gold contacts	AC14 E150	0.3A @ 120 V AC	125V	0.5kV	216	36	SPDT* DPDT*	
5 Amps @ 250V AC & 2 Amps @ 30V DC Hermetically sealed. Gold plated silver contacts	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.5kV	432 28	72 28	SPDT DPDT	H2 H3 [†] H6 [‡]
† 2 Single pole, double throw, sime ‡ 2 Single pole, double throw, sime								
Model 202 (Cannot be suppl	ied with enclosure	Code N/O)						
5 Amps @ 110/250V AC Light Duty for AC only	AC14 D300	0.6/0.3A @ 120/240 V AC	250V	0.8kV	432	72	SPDT	0C
5 Amps @ 110/250V AC & 2 Amps @ 30 V DC Adjustable	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.8kV	432 28	72 28	SPDT	0D
Model 203				•		•	•	
5 Amps @ 110/250V AC & 2 Amps @ 30V DC General purpose precision	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.8kV	432 28	72 28	SPDT DPDT	
1 Amp @ 125V AC & § 100mA @ 30V DC Gold Alloy contacts for low voltage switching		1A @ 125 VAC RESISTIVE (IEC 105	58-1 / EN 61	1058-1)			SPDT DPDT	
Model 281					-			
5 Amps @ 110/250V AC Light Duty for AC only	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.8kV	432 28	72 28	SPDT	20
5 Amps @ 110/250V AC & 2 Amps @ 30V DC General purpose precision	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.8kV	432 28	72 28	SPDT	22
1 Amp @ 125V AC & § 100mA @ 30V DC Gold Alloy contacts for low voltage switching		1A @ 125 VAC RESISTIVE (IEC 10)	58-1/EN 61	058-1)		-	SPDT	24
§ 5 Amps @ 110/250V AC & 5 Amps @ 30V DC Environmentally sealed	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.5kV	432 28	72 28	SPDT*	28
§ 1 Amp @ 30V AC & 30V DC Environmentally sealed with gold contacts	AC14 E150	0.3A @ 120 V AC	125V	0.5kV	216	36	SPDT*	2G
5 Amps @ 250V AC & 2 Amps @ 30V DC Hermetically sealed. Gold plated silver contacts	AC14 D300 DC13 R300	0.6/0.3A @ 120/240 V AC 0.22/0.1A @ 125/250V DC	250V	0.5kV	432 28	72 28	SPDT	H4
with and is shown on the product r the approval you require. This tabl any verification by CSA the micros NOTE: For low energy circuits e.g Ui = rated insulation voltage	nameplate, ie CSA, or IE e lists the actual IEC rat witch § manufacturer's . 30V and up to 100mA, Uimp = rated imp	to the instrument. The electrical ratii iC. It should be noted that the instrum ings against the Designation & Utilisi rating is stated in <i>italics and bold</i> . If we recommend using gold alloy con bulse to withstand voltage across con	nent must b ation Categ in doubt s tact switche	e used withi ory marked eek guidan	n the ele on the na	ctrical rat	ing specifies. In the ab	ed from
*Suitable for use with Exn Enclosu	res (See Table 1)							

Process Connection	TABLE 7 Image: Table 7	
Other thread specifications and sizes are available without using adaptors.		Code
Adaptors are available for applications	Rc 1/4 (1/4 BSP tr INT) to ISO 7/1	А
where their use is permitted.	1/4—18 NPT INTERNAL	F
	1/2—14 NPT INTERNAL	Н
	1/2—14 NPT EXTERNAL	J
Options & Treatments	TABLE 8 Image: 1 mining to the second s	
Combinations available, apply for details.		Code
	Tropicalisation High humidity atmospheres	01
	Marine and Offshore Saline atmosphere or salt spray	02
	Ammonia Process (wetted) parts and construction suitable for atmospheric ammonia	03
	Oxygen Service 2: Process (wetted) parts are cleaned for oxygen	04
	Oxygen Service 3: Process and non-process parts are cleaned for use with oxygen	05
	Stainless Steel Pipe Mounting Bracket Permits local 2" pipe work to be utilized for mounting the instrument	10
	Tagging - Variety of tagging methods are available	APPLY FOR DETAILS
	Applies when - no option is required and selection is made from special engineering	00
Special Engineering	TABLE 9 Image:	

Last 4 digits of model code only used when special engineering is required.

	Code
Please consult Delta sales engineering for special requirements	TBA

Performance Data

Bar Units

Due to manufacturing tolerances the figures quoted in these tables are for guidance only and are typical for weatherproof models.

Flameproof models maybe up to 2 times higher depending on the range. Should the differential be critical for specific applications our engineers should be consulted prior to ordering.

Model 281: The switching differential on each point may be up to 1.5 times that of Table 10A & C. Care must be exercised, therefore, in specifying high switches on sensitive differential ranges, or set point separation less than 3 times switching differential.

TABLE 10

MODELS 201 (281)

SPDT OPTIONS (mbar) DPDT OPTIONS (201 only) (mbar) Wetted Range Range 04 08/0G H2 00 02 Code mbar/bar parts code 03 05 09/0H H3/H6 01 (24) (22) (28/2G) (H4) (20)-1000 to 0 14 43 15 150 20 56 22 75 225 A0 2 64 вс -12.5 to +12.5 2M 2 6 2 13 5 3 10 4 15 8 16 71 **13** 270 G3 -1 to +1.5 15 46 180 20 59 23 82 2M 2 2 C6 3 to 25 6 5 3 10 4 15 8 E1 5 to 120 2M 2 7 2 14 5 4 11 4 16 8 E8 50 to 350 2M 2 7 2 14 6 3 10 4 16 9 G1 G5 18 17 22 25 0.2 to 1 2M 6 6 6 30 28 8 10 8 35 42 29 120 0.1 to 1.5 2M 5 25 10 80 J0 0.2 to 4 2M 34 106 36 160 420 50 234 52 190 630 M1 0.2 to 7 2M 50 112 38 180 500 50 139 54 200 750 P6 0.3 to 15 2M 76 240 80 390 1200 100 285 110 440 1800 Q2 6 to 25 2M 160 492 165 2300 587 230 900 3450 800 210 10 to 40 2M 991 340 1500 3000 440 1300 490 1700 4500 R3 310 15 to 75 330 1000 350 1600 3060 460 1300 510 1900 4590 S7 2M

MODELS 202, 203

TABLE 10B

TABLE 10C

TABLE 10A

			:	202 (mbar/	bar value))		203 (mbar	/bar value)
Range	Range	Wetted	SPDT ONLY			SF	SPDT DPDT		DT	
Code	mbar/bar	parts code	0C 0D		02 0	or 04	03 c	or 05		
			Min	Max	Min	Max	Min	Max	Min	Max
A0	-1000 to 0	2	27	77	80	185	170	500	250	500
BC	-12.5 to +12.5	2M	N/A	N/A	N/A	N/A	8	25	10	25
G3	-1 to +1.5	2	29	80	86	200	700	1500	1100	1500
C6	3 to 25	2M	N/A	N/A	N/A	N/A	8	25	10	25
E1	5 to 120	2M	N/A	N/A	N/A	N/A	25	60	37	60
E8	50 to 350	2M	4	14	11	23	100	200	150	200
G5	0.1 to 1.5	2M	11	35	31	67	150	700	225	700
JO	0.2 to 4	2M	65	183	197	459	400	2000	600	2000
M1	0.2 to 7	2M	68	189	207	488	600	3500	900	3500
P6	0.3 to 15	2M	143	338	443	1000	1000	7000	1500	7000
Q2	6 to 25	2M	294	796	908	2100	2	12.5	3	12.5
R3	10 to 40	2M	611	1700	1800	4200	5	20	7.5	20
S7	15 to 75	2M	639	1700	1900	4500	5	37.5	7.5	37.5

PSI Units

MODELS 201 (281)

SPDT OPTIONS DPDT OPTIONS (201 only) Range Wetted Range psi / in.Hg / in. H₂0 00 02 04 08/0G H2 parts code Code 01 03 05 09/0H H3/H6 (20)(22)(24)(28/2G (H4) 0.45 1.30 0.5 0.65 0.65 AB -30 to 0 2.0 4.4 1.7 2.25 6.64 ВU 2М 4.0 3.2 -5 to +5 0.8 2.4 0.8 5.2 1.2 1.6 6.0 2 GK -14.5 to +20 2 0.2 0.67 0.23 1.0 2.6 0.3 0.85 0.33 1.2 3.9 CP 1 to 10 2М 0.8 0.8 5.2 2 1.2 4.0 1.6 6.0 3.2 2.4 E4 2 to 50 2M08 2.8 08 55 2 16 45 16 65 32 E7 2M 0.03 0.2 0.09 0.06 0.23 0.13 0.1 0.03 0.04 0.15 1 to 5 GF 3 to 15 2M 0.09 0.26 0.1 0.43 0.41 0.1 0.32 0.12 0.50 0.61 GP 1 to 20 2M 0.07 0.25 0.1 0.35 1.2 0.15 0.38 0.15 0.42 1.74 .13 2 to 60 2M 0.5 15 0.5 25 61 0.7 3.5 0.8 28 9 14 2M M4 3 to 100 0.5 1.6 0.6 2.6 7.3 0.7 2.0 0.8 2.9 10.88 PΒ 4 to 200 2M 1.1 3.5 1.2 5.7 17.4 1.5 4.2 1.6 6.4 26.1 2M 2.3 11.6 3.0 8.5 QB 85 to 400 7 2.5 33.4 3.3 13 50.03 RB 140 to 600 2M 4.5 14.3 5 5 22 43.5 6.4 19 7 25 65.25 200 to 1000 2M 23 7.5 28 65.26 4.8 44.4 6.7 19 SB 14.5

MODELS 202, 203

Series 203 202 Range psi / **in.Hg** / Range Wetted SPDT ONLY DPDT SPDT Code parts code in. H₂0 00 0D 02 or 04 03 or 05 Min Max Min Мах Min Max Min Max AB -30 to 0 0.80 5.0 14.5 14.5 2.2 2.4 5.4 7.5 ВU -5 to +5 2М N/A N/A N/A N/A 3.5 10 10 GK -14.5 to +20 2 0.45 1.1 1.2 2.9 10 21 16 21 3.5 10 10 24 4 15 10 24 2.9 CP 1 to 10 2М N/A N/A N/A N/A E4 2 to 50 2MN/A N/A N/A N/A E7 1 to 5 2M 0.06 0.20 0.16 0.33 1.5 29 2.1 GP 1 to 20 2M 10 10 0.16 0.50 0.5 0.95 2.2 3.3 29 50 J3 2 to 60 2M 1.0 2.6 2.9 6.6 6 29 9 2M 50 M4 2.7 7.0 9 13 3 to 100 1.0 3.0 PΒ 4 to 200 2M 4.9 14.5 15 100 22 100 2.1 6.5 44 180 QB 85 to 400 2M 4.3 11.5 13.5 30 30 180 RB 140 to 600 2M 89 24 26 60 75 290 110 290 \square SB 200 to 1000 2M 9.33 24 28 65 75 500 110 500

TABLE 10D

lodels: 201, 202, 203 & 281 ertormance

Electrical Connections

Terminal Block

Cable entry is to a non-pinching terminal block made of a non-hygroscopic thermosetting plastic, suitable for cables up to 2.5mm²/14AWG.

Earthing/Grounding

An earthing stud is provided inside all weatherproof enclosures, adjacent to the entry. External earthing is standard on flameproof versions. Safety note see Table 3.

Dielectric Strength

The electrical assembly is capable of withstanding *2kV between live parts and earth/ground and 500V between open contacts.

* 1.2kV for micro switch Codes H2, H3, H4 and H6. Refer to Table 6.

Electrical Entry

Standard options are listed in Table 3. Other threads can be accommodated by adaptors. Dual entry available, see Table 3.

Optional Extras

Chemical Seals

Chemical seals of our own or proprietary manufacture can be fitted when required.

Mounting Position/Location/Installation

Vertical as shown, IN DIMENSIONS, taking care to avoid siting in locations that transmit excessive shock or vibration. For further advice contact our engineers.

Pollution degree (EN60947-5-1)

All products are suitable for use in pollution degree 3. For extreme conditions where condensation may readily form, then sealed contacts should be used. See Table 6 Codes 08/09, 0G/0H, 2G, 28, H2/H3/H4/H6.

Electrical Isolation

These products are not suitable for electrical isolation. Always isolate circuit separately to carry out any electrical work.

Approvals

EUROPEAN DIRECTIVES

CE

Low voltage Directive (LVD) 2014/35/EU. Compliant to LVD

Pressure Equipment Directive (PED) 97/23/EC:

This product has a process connection size <=DN25 and is therefore categorised as sound engineering practice under Cat 3.3

ATEX APPROVALS



FLAMEPROOF:

Certificate No. BAS01ATEX2426X EN 60079-0, EN 60079-1, EN 60079-31

For Zone 1 models (Enclosure code H/K, see Table 1)

(Ex)	II	2	
$\langle x \rangle$	II	2	

GD Ex db IIC T4 (Tamb -60°C to +80°C) Gb Ex tb IIIC T135°C (Tamb -60°C to +80°C) Db IP66 GD Ex db IIC T6 (Tamb -60°C to +40°C) Gb Ex tb IIIC T85°C (Tamb -60°C to +40°C) Db IP66

GLOBAL CERTIFICATION

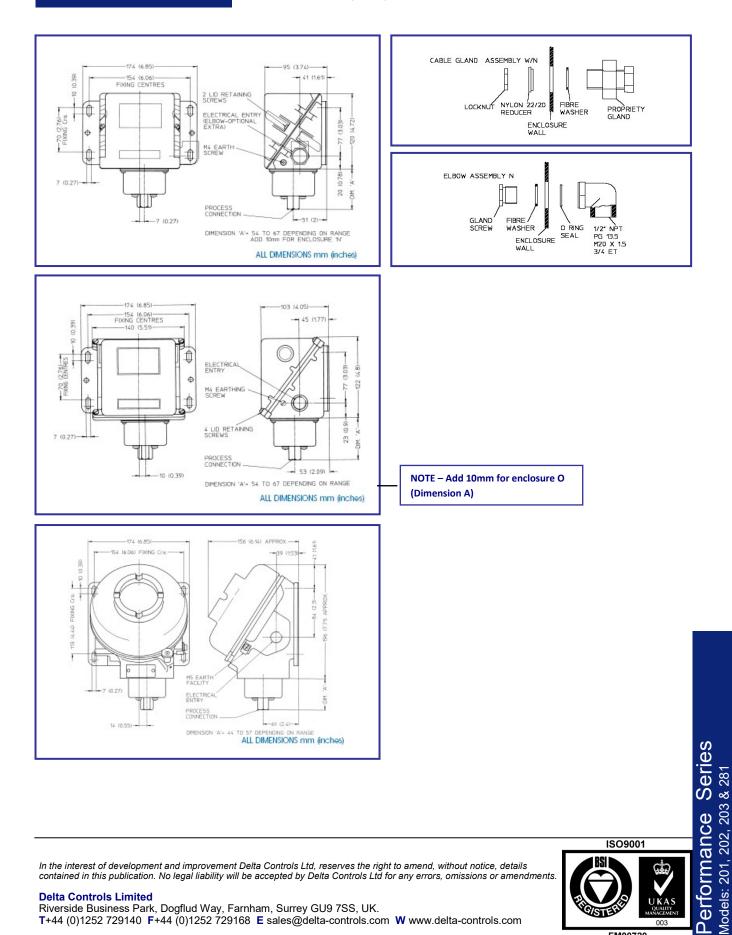
IECEx Certified

Ex db IIC T4 (Tamb -60°C to +80°C) Gb Ex db IIC T6 (Tamb -60°C to +40°C) Gb

Certificate No. IECEx ITS 04.0006X IEC 60079-0, EN 60079-1

Dimensions

All dimensions mm (inches)



In the interest of development and improvement Delta Controls Ltd, reserves the right to amend, without notice, details contained in this publication. No legal liability will be accepted by Delta Controls Ltd for any errors, omissions or amendments.

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