CURTISS-WRIGHT

Penny & Giles
Pressure Sensors
General Specification Information

This document details common specifications across the Pressure Sensors range and should be read in conjunction with the individual data sheets.

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CONFIGURATION & ORDERING CODES

PXXYYY/XXXXX/XXX/X/XX/XX/XX/XXX

Model	Max. Pressure	Unit	Pressure Mode	Pressure Connection	Electrical Output	Electrical Connection	Extras
PXXYYY	1 – 10000	mbar	a	01-32	01-20	01-25	XXx
	XXX	bar	g				
		kPa	s				
		Mpa					
		psi					
		kgc					
		mWG					
		inWG					

MODEL NUMBER

PXXYYY/XXXXX/XXX/X/XX/XX/XX/XXX

Code	Description
PXXYYY	CW model number, e.g. PPS100

MAX PRESSURE

PXXYYY/**XXXXX**/XXX/X/XX/XX/XX/XXX

Code	Supply Voltage
1-10000	Pressure at full-scale electrical output

UNIT

PXXYYY/XXXXX/**XXX**/X/XX/XX/XX/XXX

Code	Description
mbar	millibars
bar	bars
kPa	kilopascal
Mpa	megapascal
psi	pounds per square inch
kgc	kilogram per square centimeter
mWG	meters of water gauge
inWG	inches of water gauge

PRESSURE MODE

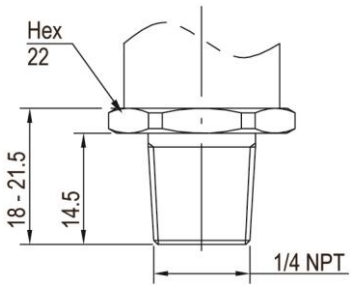
PXXYYY/XXXXX/XXX/**X**/XX/XX/XX/XXX

Code	Description
a	absolute
g	gauge
s	sealed

PRESSURE CONNECTION

PXXYYY/XXXXX/XXX/X/**XX**/XX/XX/XXX

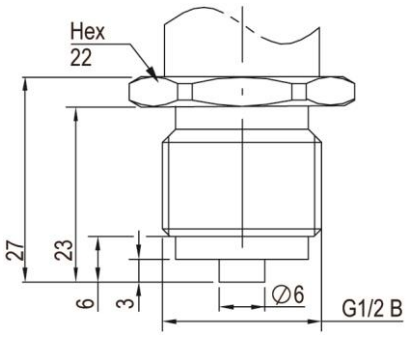
01	1/4 NPT



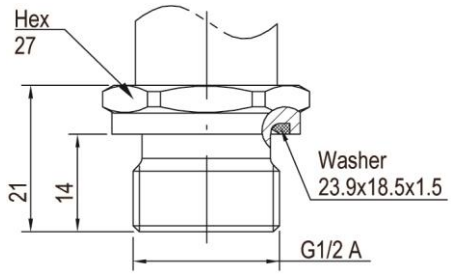
18-21.5mm dimension dependent on sensor model.

02	1/8 NPT

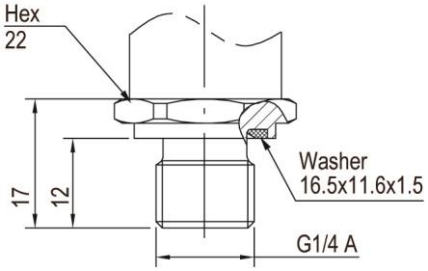
03	G 1/2 B



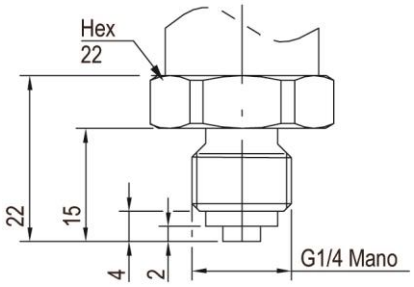
04	G 1/2 A Shape E - DIN 3852



05	G 1/4 A Shape A - DIN 3852



06	G 1/4 B



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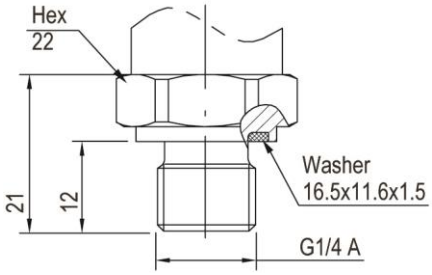
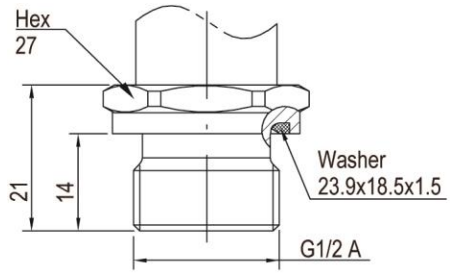


08	G 1/8 A Shape A

09	G 1/2 A Shape E - DIN 3852



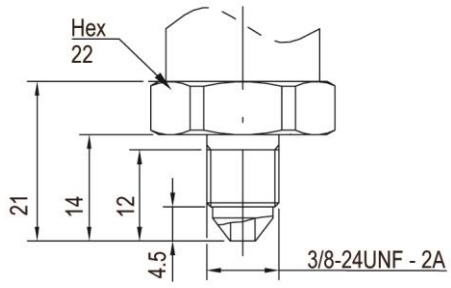
10	G 1/2 A Shape E

11	R 1/4 Male

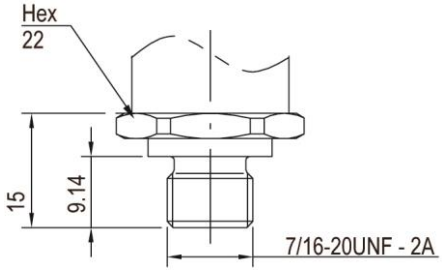
12	1/2-20 UNF-2A

13	3/8-24 UNF-2A/C

14	3/8-24 UNF-2A

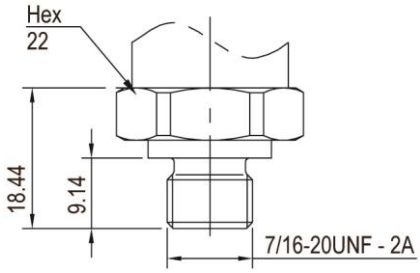


15	7/16-20 UNF-2A/C



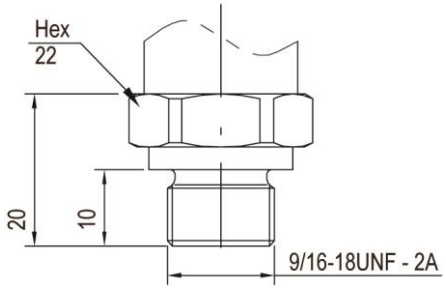
16	7/16-20 UNF-2B

17	7/16-20 UNF-2A



18	9/16-18 UNF-2B

19	9/16-18 UNF-2A



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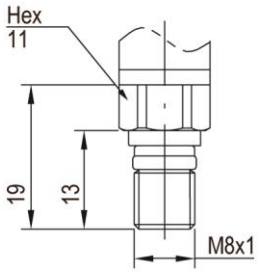
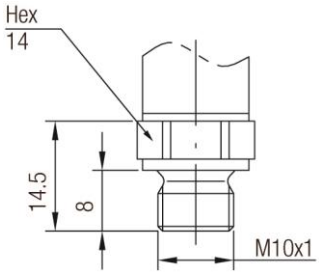


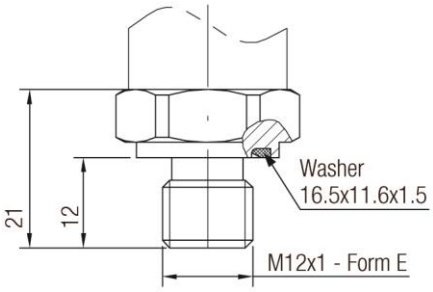
21	M8x1 Male

22	M10x1 Shape A

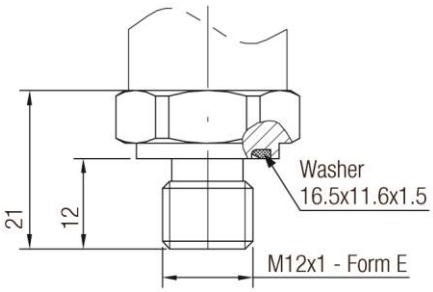


23	M12x1 Conical

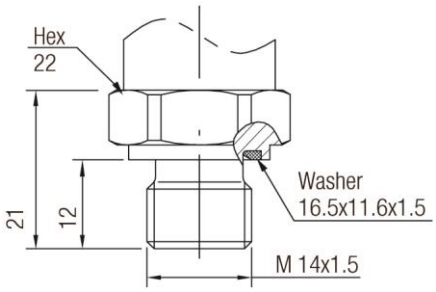
24	M12x1 Shape E



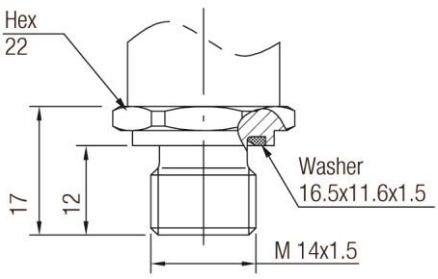
25	M12x1.5 Ct. Ring



26	M14x1.5 Shape A - DIN 3852



27	M14x1.5 Shape E - DIN 3852

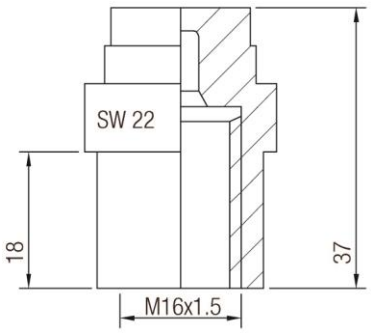


28	M14x1.5 ISO

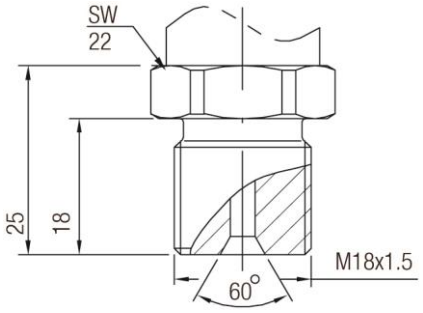
29	M16x1.5 Shape A

29	M16x1.5 Shape A

30	M16x1.5 Female

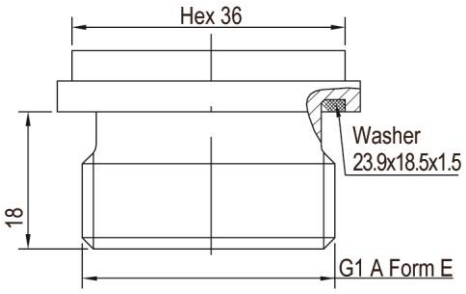


31	M18x1.5 Male



32	M20x1.5

33	G1 A Shape E - DIN 3852



34	Plastic

35	Stainless Steel

ELECTRICAL OUTPUT

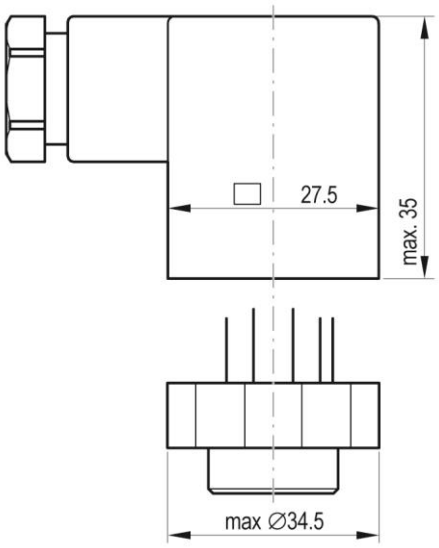
PXXYYY/XXXXX/XXX/X/XX/**XX**/XX/XXX

Code	Description	Vsupply	Load Resistance
01	4-20 mA two wires	9-32V	Must be less than ((Vsupply -10) / 0.02)Ω
02	0-20 mA three wires		
03	4-20 mA three wires	9-32V	Must be less than ((Vsupply -10) / 0.02)Ω
04	0-10 V	12-32V	Must be greater than 5kΩ
05	1-5 V	8-32V	Must be greater than 1kΩ
	1-5 V	8-32V	>2.5Ω
06	0-6 V		
07	0-5 V	8-32V	Must be greater than 2.5kΩ
08	0.5-4.5 V ratiometric	5V±10%	Must be greater than 4.7kΩ
09	0.5-4.5 V		
10	CANopen 2.0A		
11	Switch PNP/NO	10-30V	
12	Switch PNP/NC	10-30V	
13	Switch NPN/NO	10-30V	
14	Switch NPN/NC	10-30V	
15	0-20 mA three wires		
16	0-10 V		
17	P: 0-10 V T: 0.25-4.75 V ratiometric		
18	P: 0.5-4.5 V ratio. T:0.25-4.75 V ratiometric	5V±10%	>4.7Ω
19	P & T: 4-20 mA two wires	20-27V	acc. to R = < (U_s - 16V) / 0.02 A min 100 Ω
20	P: 0-10 V T: 4-20 mA two wires	9-27V	Must be less than ((Vsupply -10) / 0.02)Ω

ELECTRICAL CONNECTION

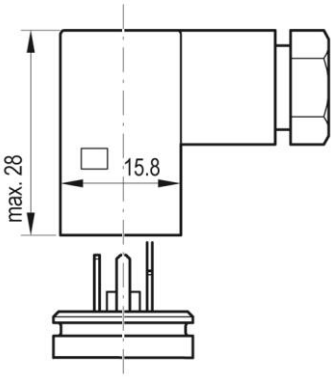
PXXYYY/XXXXX/XXX/X/XX/XX/**XX**/XXX

01	MVC/A - DIN EN 175301-803-A	Pin Identification



Pin	2-wire	3-wire
1	Vsupply	Vsupply
2	Output	Output
3		GND (0V)
⏚		

02	MVC/C - DIN EN 175301-803-C	Pin Identification



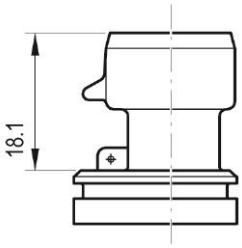
Pin	2-wire	3-wire
1	Vsupply	Vsupply
2	Output	Output
3		GND (0V)
⏚		

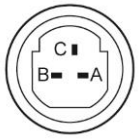
03	Hirschmann Mini	Pin Identification
	TBD	
		Pin **2-wire** **3-wire**

04	LEMOEWB 1S	Pin Identification
		Pin **2-wire** **3-wire** 1 2 3

05	IS9 Industrial Socket	Pin Identification
		Pin **2-wire** **3-wire** 1 2 3

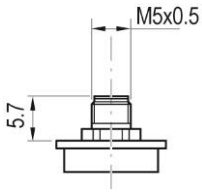
06	Packard	Pin Identification





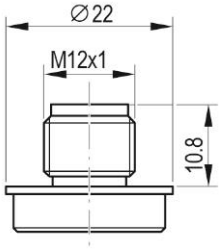
Pin	2-wire	3-wire
A	Output	Output
B	Vsupply	Vsupply
C		GND (0V)

07	Male Socket M5 - S707	Pin Identification

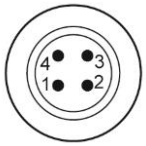


Pin	2-wire	3-wire
1		
2		
3		
4		

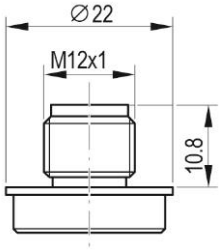
08	Male Socket M12 - S763	Pin Identification



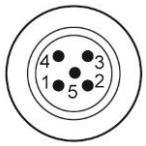
Non-PPT Models



Pin	2-wire	3-wire	Switch
1	Vsupply	Vsupply	Vsupply
2			
3	Output	Output	GND (0V)
4		GND (0V)	Output

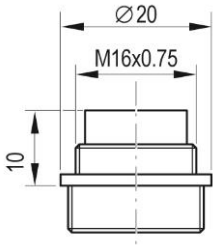


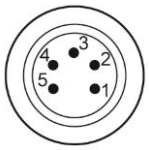
PPT Models



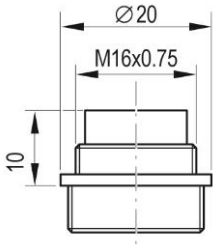
Pin	2-wire	3-wire
1	Vsupply	Vsupply
2	Temperature +	Temperature +
3	Output (Pressure)	GND (0V)
4		Output (Pressure)
5	Temperature -	Temperature -

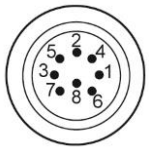
09	Male Socket M16 - S723	Pin Identification





Pin	2-wire	3-wire
1	Output (Pressure)	Output (Pressure)
2	Temperature +	Temperature +
3	Vsupply	Vsupply
4		GND (0V)
5	Temperature -	Temperature -

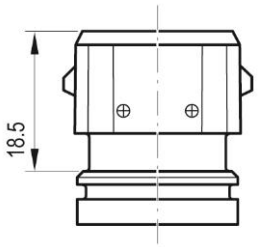
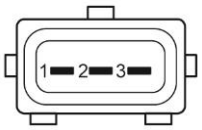




Pin	2-wire	3-wire
1	Output (Pressure)	GND (0V)
2	Temperature +	Temperature +
3		
4		Output (Pressure)
5	Temperature -	Temperature -
6	Vsupply	Vsupply
7		
8		

10	Male Socket M18 - S714	Pin Identification

Pin
1
2
3
4
5

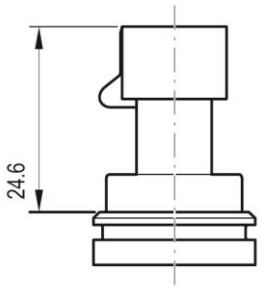
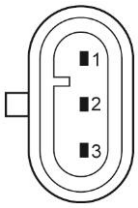
11	Junior Timer	Pin Identification
		

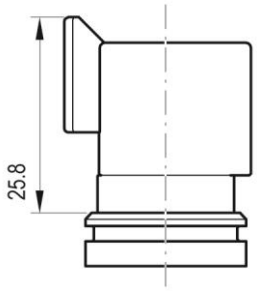
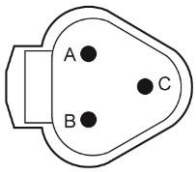
Pin	**2-wire**	**3-wire**
1	Output	Output
2		GND (0V)
3	Vsupply	Vsupply

12	Bayonet DIN 72585	Pin Identification

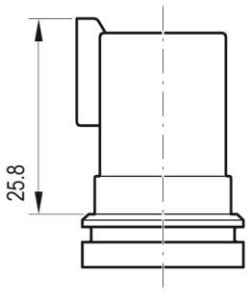
Pin
1
2
3

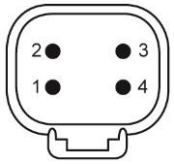
13	Bayonet VG 95234	Pin Identification
		Pin
		1
		2
		3

14	Superseal	Pin Identification		
				
		Pin	**2-wire**	**3-wire**
		1	Output	Output
		2		GND (0V)
		3	Vsupply	Vsupply

15	Deutsch 3-pole	Pin Identification		
				
		Pin	**2-wire**	**3-wire**
		1	Vsupply	Vsupply
		2	Output	Output
		3		GND (0V)

16	Deutsch 4-pole	Pin Identification





Pin	2-wire	3-wire
1	Output	Output
2	Vsupply	Vsupply
3		
4		GND (0V)

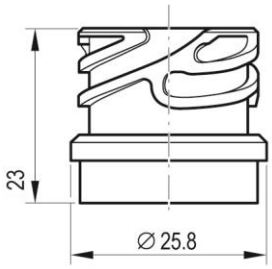
17	QUICKON	Pin Identification

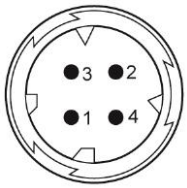
Pin	2-wire	3-wire
1		
2		
3		

18	Flying lead 1m
19	Cable Gland Plastic 1m
20	Cable Steel 1m
21	Cable Plastic 1m

Cable	2-wire (Non-PPT)	3-wire (Non-PPT)	2-wire (PPT)	3-wire (PPT)
Red	Vsuppy	Vsuppy	Vsuppy	Vsuppy
Black	Output	Output	Output (Pressure)	Output (Pressure)
White		GND (0V)		GND (0V)
Green			Temperature +	Temperature +
White/Blue			Temperature -	Temperature -

22	2RMD Round	Pin Identification





Pin	2-wire	3-wire
1	Output	Output
2	Vsuppy	Vsuppy
3		GND (0V)
4		

23	Cable Gland Plastic 1m			
Cable	**2-wire (Non-PPT)**	**3-wire (Non-PPT)**	**2-wire (PPT)**	**3-wire (PPT)**
Red	Vsuppy	Vsuppy	Vsuppy	Vsuppy
Black	Output	Output	Output (Pressure)	Output (Pressure)
White		GND (0V)		GND (0V)
Green			Temperature +	Temperature +
White/Blue			Temperature -	Temperature -

24	Screw Terminal	Pin Identification

Pin	2-wire	3-wire
1		
2		
3		
4		

25	Cable with Heatshrink 1m			
Cable	**2-wire (Non-PPT)**	**3-wire (Non-PPT)**	**2-wire (PPT)**	**3-wire (PPT)**
Red	Vsuppy	Vsuppy	Vsuppy	Vsuppy
Black	Output	Output	Output (Pressure)	Output (Pressure)
White		GND (0V)		GND (0V)
Green			Temperature +	Temperature +
White/Blue			Temperature -	Temperature -

EXTRAS

PXXYYY/XXXXX/XXX/X/XX/XX/XX/**XXX**

Code	Description
xxx	None
F25	Total Error 0.25%
F50	Total Error 0.5%
FSP	Special Calibration
FXX	Total Error Others
O2C	Cleaned for Oxygen Use
PAR	Ext. Change of Parameters
R06	Restrictor 0.6 mm
RXX	Restrictor Others
S29	Schraeder Opener 2.9
SCO	Metal Cone
ZO0	Zone 0
ZSA	Additional Switch Output

IMPORTANT INFORMATION
Whilst Curtiss-Wright Industrial Group - Penny & Giles has designed this sensor to meet a range of applications it is the responsibility of the customer to ensure it meets their specific requirement.

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