



PCB Sockets for A,B,C,D and G Series sensors

SENSOR TYPE	MANUFACTURER	воттом	PCB HOLE SIZE mm(in)	TIN SHELL TIN CONTACTS	TIN SHELL GOLD CONTACTS	GOLD SHELL GOLD CONTACTS	
	Cambion	Closed	1.40 (0.055)	450-3703-01-04-00	450-3703-01-06-00	450-3703-01-03-00	
D toxic	Mill-Max	Closed	1.44(0.057)	0667-0-15-80-30-84-10-0	0667-0-15-80-30-27-10-0	0667-0-15-15-30-27-10-0	
	Amp Tyco	Closed	1.32 (0.052)	5050462-7	5050462-8	50462-6	
D pellistors	Cambion	Closed	1.93 (0.076)	450-3718-01-04-00	450-3718-01-06-00	450-3718-01-03-00	
	Mill-Max	Closed	1.93 (0.076)	0294-0-15-80-06-80-10-0	0294-0-15-80-06-27-10-0	0294-0-15-15-06-27-10-0	
	Mill-Max	Open	1.70 (0.067) hex press fit	9293-0-15-80-06-80-10-0	9293-0-15-80-06-27-10-0	9293-0-15-15-06-27-10-0	
	Amp Tyco	Closed	1.57 (.062)	5050864-6	5050864-1	50864	
	Harwin	Closed	1.91/1.96 (knurled)	H8501-46	H8501-01	H8501-05	
	Harwin	Closed	1.91/1.96 (.075/.077)	H8504-46	H8504-01	H8504-05	
A, C and G series	Cambion	Closed	2.59 (.102)	450-3326-01-04-00	450-3326-01-06-00	450-3326-01-03-00	
	Mill-Max	Closed	2.54 (0.1)	0364-0-15-80-13-80-10-0	0364-0-15-80-13-27-10-0	0364-0-15-15-13-27-10-0	
	Amp Tyco	Closed	2.59 (.102)	not available	not available	2-50871-2	
	Cambion	Closed	1.93 (.076)	450-3704-01-04-00	450-3704-01-06-00	450-3704-01-03-00	
B Series	Mill-Max	Open	2.35 (.092)	6628-0-18-80-18-80-10-0	6628-0-18-80-18-27-10-0	6628-0-18-15-18-27-10-0	
	Mill-Max	Closed	1.91 (.075)	0327-0-15-80-34-80-10-0	0327-0-15-80-34-27-10-0	0327-0-15-15-34-27-10-0	
	Amp Tyco	Closed	1.80 (.071)	5050865-8	5050865-5	50865	

This is not an exhaustive list and is for information and reference purposes only Specifications and availability are subject to change and are not in Alphasense's control.

Please contact the appropriate supplier for current details.

Cambion: http://www.cambion.co.uk/Main/solder1.htm

Harwin: http://www.harwin.co.uk/

Mill-Max: http://www.mill-max.com/pin_rec_catalog/search_results.cfm?pin_or_rec=rec&part_description=Receptacle%20with%20no%20Tail

AmpTyco: http://catalog.tycoelectronics.com/TE/bin/TE.Connect?C=114&P=&M=LIST&BML=10576,16358,17560,17578&LG=1&I=13&G=G

Andon Electronics: http://www.andonelect.com (see pages 2,3,4 over)

All sockets are EU RoHS/ELV compliant.

'D' Toxic sensors: An alternative is a single 4-way in-line socket, but as these sockets are designed for square pins, they may not provide the best contact. The sensor will also be spaced off the PCB by the thickness of the socket and will therefore need to be mechanically supported.

Harwin sockets are longer than required and engagement is minimal.

Tyco A sockets are longer than required but engage adequately.

NDIR pins are 1.57 mm diameter, not 1.50 mm. This is the top limit of the A series sockets and insertion/ extraction force must be tested. The Mil-Max socket allows up to 1.625 mm diameter.

SERIES	PIN DIAMETER (mm)	PIN LENGTH (mm)	PIN SPACING (mm)	
D toxic	0.64	4.0	2.54 (0.1")	
D pellistor	0.80	4.0	3.0 x 5.0	
A series and O2-G1/2	1.50	4.3	See data sheets	
B toxic	1.00	3.8	See data sheets	
NDIR & PID	1.57	4.2	See data sheet	

Alphasense Ltd, Sensor Technology House, 300 Avenue West, Skyline 120, Great Notley. CM77 7AA, UK
Telephone: +44 (0) 1376 556 700 Fax: +44 (0) 1376 335 899 E-mail: sensors@alphasense.com Website: www.alphasense.com



Sockets





RoHS Compliant ISO 9001 Certified

Alphasense Ltd.	Andon Part Number	Termina	al Type	Pin Ø	Eigura	Dono
Model Number	Replace "XXX" with Terminal Type	Thru-Hole	Surface	[in]	Figure Number	Page Number
		THI U-HOIC	Mount	[,,,]		
CH-A3	R300-SP03-01T-XXXX-R27-L14	436P55	440P55	.060	27	2
CH-D3	R196-SP04-01T-XXXX-R27-L14	295V	439V	.030	12	2
CL2-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CL2-B1	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
CL2-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
CO2-D1	R200-SP03-03T-XXXX-R27-L14	295V	439V	.030	17	2
CO-AE	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CO-AF	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CO-AX	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CO-BF	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
CO-BX	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
CO-CE	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CO-CF	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CO-CX	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
CO-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
D2	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
ETO-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
ETO-B1	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
H2S-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
H2S-AE	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
H2S-AH	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
H2S-B1	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
H2S-BE	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
H2S-BH	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
H2S-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
HCN-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
HCN-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
IRC-A1	R505-SP07-01T-XXXX-R27-L14	436P55	440P55	.060	32	2
NO2-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
NO2-AE	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
NO2-B1	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
NO2-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
NO-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
NO-AE	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
NO-B1	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
NO-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2
O2-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
O2-A2	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
O2-A3	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
O2-C2	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
O2-G1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
O2-G2	R530-0403-02N-XXXX-R27-L14	436P55	440P55		38	3
PH3-A1	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
PH3-B1	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
PH3-BE	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
PID-A1	R300-SP03-01T-XXXX-R27-L14	436P55	440P55	.060	27	2
PID-AH	R300-SP03-01T-XXXX-R27-L14	436P55	440P55	.060	27	2
SO2-AE	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
SO2-AF	R530-0403-02N-XXXX-R27-L14	436P55	440P55	.060	38	3
SO2-BF	R670-0804-02T-XXXX-R27-L14	433E	285E	.040	44	3
SO2-D4	R300-SP04-02T-XXXX-R27-L14	295V	439V	.030	26	2

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Sockets





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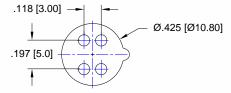
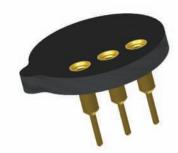


Fig 12

Thru-hole: R196-SP04-01T-295V-R27-L14
Surface Mount: R196-SP04-01T-439V-R27-L14



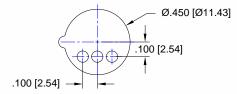


Fig 17

Thru-hole: R200-SP03-03T-295V-R27-L14
Surface Mount: R200-SP03-03T-439V-R27-L14

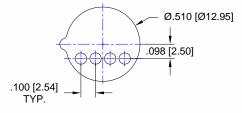


Fig 26

Thru-hole: R300-SP04-02T-295V-R27-L14
Surface Mount: R300-SP04-02T-439V-R27-L14

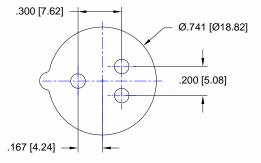


Fig 27

Thru-hole: R300-SP03-01T-436P55-R27-L14 Surface Mount: R300-SP03-01T-440P55-R27-L14

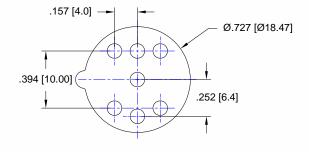


Fig 32

Thru-hole: R505-SP07-01T-436P55-R27-L14
Surface Mount: R505-SP07-01T-440P55-R27-L14

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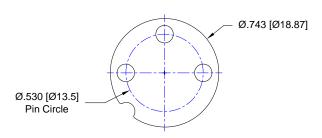


Fig 38

Thru-hole: R530-0403-02N-436P55-R27-L14
Surface Mount: R530-0403-02N-440P55-R27-L14

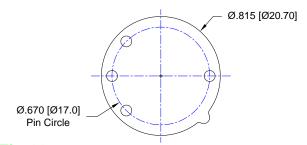
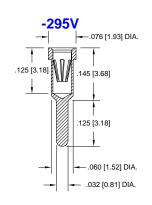


Fig 44

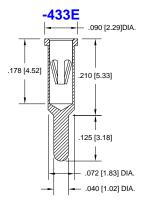
Thru-hole: R670-0804-02T-433E-R27-L14
Surface Mount: R670-0804-02T-285E-R27-L14

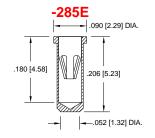
Socket Terminal Details

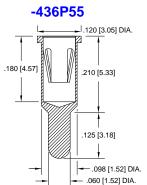
Cross Section View Shown Units: in [mm]













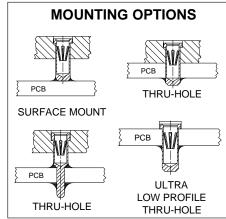
Technical Information

Material: OTHER PLATINGS AVAILABLE
Insulator: Hi-Temp UL 94V-O Plating: RoHS COMPLIANT

Terminal: Brass, per ASTM-B16
Contact: BeCu, Per ASTM-B194
R17 TERMINAL: TIN / CONTACT: GOLD

Terminal Acceptance and Forces								
Thru Hole Terminals				Surface Mount Terminals				
Thru Hole Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force	Surface Mount Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force	
-295V -433E -436P55	Ø.030 [Ø0.76] Ø.040 [Ø1.02] Ø.060 [Ø1.52]	36.0 oz Max	3.9 oz Min	-439V -285E -440P55	Ø.030 [Ø0.76] Ø.040 [Ø1.02] Ø.060 [Ø1.52]	36.0 oz Max	3.9 oz Min	

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