



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

Technical Information

SENSOR TYPE	MANUFACTURER	BOTTOM	PCB HOLE SIZE mm(in)	TIN SHELL TIN CONTACTS	TIN SHELL GOLD CONTACTS	GOLD SHELL GOLD CONTACTS
D toxic	Cambion	Closed	1.40 (0.055)	450-3703-01-04-00	450-3703-01-06-00	450-3703-01-03-00
	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
B Series	Cambion	Closed	1.93 (.076)	450-3704-01-04-00	450-3704-01-06-00	450-3704-01-03-00
	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

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 Mill-Max socket allows up to 1.625 mm diameter.

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

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

Please contact the appropriate supplier for current details.

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

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

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

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>