

*Innovative operator interface,  
measurement, monitoring  
and control solutions*



PROTOCOL CONVERSION  
AND COMMUNICATIONS



OPERATOR INTERFACES



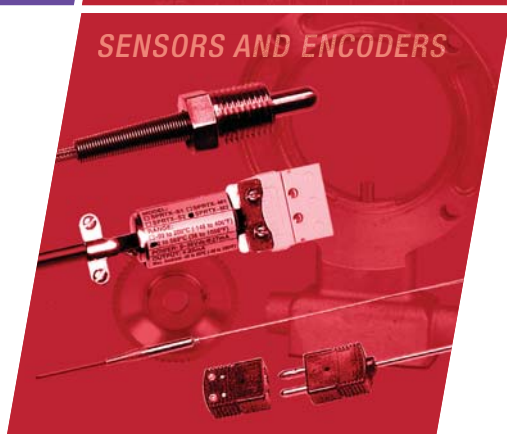
DIGITAL AND ANALOG  
PANEL METERS



SIGNAL CONDITIONERS



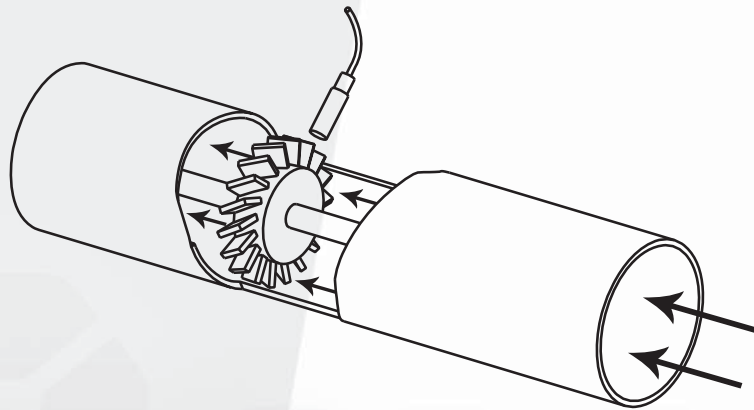
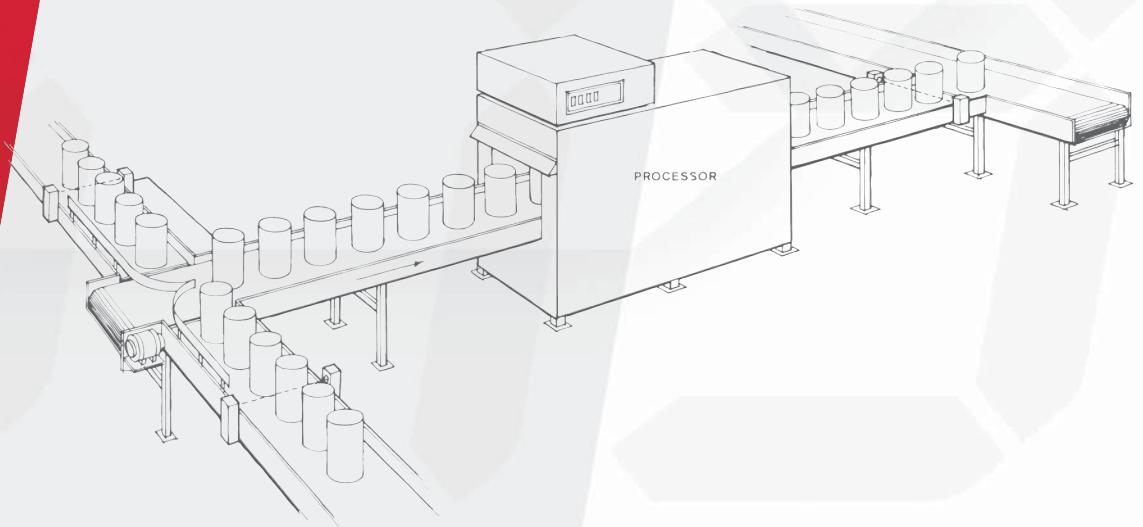
MODULAR CONTROL AND  
DATA ACQUISITION



SENSORS AND ENCODERS



# SENSOR WIRING GUIDE



***The Trusted Source for  
Innovative Control  
Solutions***

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SENSOR MODEL	ASTC, LMPC, ZFG, ZCG, HESS, PSAH	PSA1B PSA2B	PSA6B PSA7B PSA8B PSAFP PSAC	MP25TA MP37TA MP37CA MP62TA MP75TX	LMPEC	LMPCC
OLD MODEL	LSC RPGC					
OUTPUT CONNECTIONS						
APLR/APLR/ APLPT						
C48C				NOT APPLICABLE		
CUB7		NOT APPLICABLE		NOT APPLICABLE	NOT APPLICABLE	
CUB1, CUB2		NOT APPLICABLE		NOT APPLICABLE	NOT APPLICABLE	
CUB2LQ	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
CUB2LU		NOT APPLICABLE		NOT APPLICABLE	NOT APPLICABLE	
CUB3		NOT APPLICABLE		NOT APPLICABLE	NOT APPLICABLE	

\* Designates wires from the listed counter.

SENSOR MODEL	ZCH, ZFH, ZGH, ZMD, ZOD, ZOH, ZPJ, ZRJ, ZRL, ZSD, RPGD	ZDH, ZLZ, ZNH, ZUK	ZBG, ZBH, ZHG	ZBG, ZBH (M12 Connector)	PRMDC, RCMD, RRMDC	PRDC, RCDC, RRDC								
OLD MODEL	ARJ, LSM, LSQ, RPGO, RPGQ,	LE, RPGN	RPGB, RPGH	RPGB										
OUTPUT CONNECTIONS			<b>ZBG and ZBH</b>  <b>ZHG</b> <table border="1"> <tr><td>4</td><td>Ch B</td></tr> <tr><td>3</td><td>Ch A</td></tr> <tr><td>2</td><td>COMM</td></tr> <tr><td>1</td><td>+V</td></tr> </table>	4	Ch B	3	Ch A	2	COMM	1	+V			
4	Ch B													
3	Ch A													
2	COMM													
1	+V													
APLR/APLR/ APLPT	RED (+V) — 3 (DC OUT) SWITCH SETTINGS BLK (-) — 4 (COMM.) MAG. PNP LOGIC NPN OC WHT (Ch A) — 5 (SIG. IN)	RED (+V) — 3 (DC OUT) SWITCH SETTINGS BLK (-) — 4 (COMM.) MAG. PNP LOGIC NPN OC WHT (Ch A) — 5 (SIG. IN)	A (+V) — 3 (DC OUT) SWITCH SETTINGS B (-) — 4 (COMM.) MAG. PNP LOGIC NPN OC C (Ch A) — 5 (SIG. IN)	1 (+V) — 3 (DC OUT) SWITCH SETTINGS 2 (-) — 4 (COMM.) MAG. PNP LOGIC NPN OC 3 (Ch A) — 5 (SIG. IN)	BRN (+V) — 3 (DC OUT) SWITCH SETTINGS BLUE (-) — 4 (COMM.) MAG. PNP LOGIC NPN OC WHT — 5 (SIG. IN)	BRN (+V) — 3 (DC OUT) SWITCH SETTINGS BLUE (-) — 4 (COMM.) MAG. PNP LOGIC NPN OC WHT — 5 (SIG. IN)								
C48C	WHT (Ch A) — 7 (INPUT A) SWITCH SETTINGS GRN (Ch B) — 8 (INPUT B) SRC LOGIC LO BIAS BLK (-) — 9 (COMM.) RED (+V) — 10 (DC OUT) SINK HIFRC LO BIAS	WHT (Ch A) — 7 (INPUT A) SWITCH SETTINGS GRN (Ch B) — 8 (INPUT B) SRC LOGIC LO BIAS BLK (-) — 9 (COMM.) RED (+V) — 10 (DC OUT) SINK HIFRC LO BIAS	C (Ch A) — 7 (INPUT A) SWITCH SETTINGS D (Ch B) — 8 (INPUT B) SRC LOGIC LO BIAS B (-) — 9 (COMM.) A (+V) — 10 (DC OUT) SINK HIFRC LO BIAS	3 (Ch A) — 7 (INPUT A) SWITCH SETTINGS 4 (Ch B) — 8 (INPUT B) SRC LOGIC LO BIAS 2 (-) — 9 (COMM.) 1 (+V) — 10 (DC OUT) SINK HIFRC LO BIAS	WHT — 7 (INPUT A) SWITCH SETTINGS BLUE (-) — 9 (COMM.) SRC LOGIC LO BIAS BRN (+V) — 10 (DC OUT) SINK HIFRC LO BIAS	WHT — 7 (INPUT A) SWITCH SETTINGS BLUE (-) — 9 (COMM.) SRC LOGIC LO BIAS BRN (+V) — 10 (DC OUT) SINK HIFRC LO BIAS								
CUB7														
CUB1, CUB2														
CUB2LQ					NOT APPLICABLE	NOT APPLICABLE								
CUB2LU														
CUB3			NOT APPLICABLE	NOT APPLICABLE										

\* Designates wires from the listed counter.

SENSOR MODEL	ASTC, LMPC, ZFG, ZCG, HESS, PSAH	PSA1B PSA2B	PSA6B PSA7B PSA8B PSAFP PSAC	MP25TA MP37TA MP37CA MP62TA MP75TX	LMPEC	LMPCC
OLD MODEL	LSC RPGC					
OUTPUT CONNECTIONS	RED (+V) BLACK (-) or (COMM) WHITE (Ch A)	BLACK OR BROWN (+V) BLUE (Ch A)	BROWN (+V) BLUE (-) or (COMM) BLACK (Ch A)	WHITE OR BLUE BLACK	KEY C (Ch A) WHITE A (+V) RED B (-) or (COMM) BLACK	KEY C (Ch A) WHITE A (+V) RED B (-) or (COMM) BLACK
CUB4	BLK (COMM) RED (+V) WHT (Ch A) 1 COM H.S. CNT 5 V+ 2 10K ohm	NOT APPLICABLE	BLUE (COMM) BRN (+V) BLK (Ch A) 1 COM H.S. CNT 5 V+ 2 10K ohm	NOT APPLICABLE	NOT APPLICABLE	B (COMM) A (+V) C (Ch A) 1 COM H.S. CNT 5 V+ 2 10K ohm
CUB5 (Pre 2004)	BLK (COMM) RED (+V) WHT (Ch A) COMM INPUT A V+	NOT APPLICABLE	BLUE (COMM) BRN (+V) BLK (Ch A) COMM INPUT A V+	USE ASTC IN-LINE AMPLIFIER	NOT APPLICABLE	B (COMM) A (+V) C (Ch A) COMM INPUT A V+
CUB5B CUB5R	BLK (COMM) WHT (Ch A) RED (+V) SWITCH SETTINGS Sensor also works for INP B	BLUE (Ch A) BLK or BRN (+V) 2.2 K ohm SWITCH SETTINGS Sensor is not applicable for INP B	BLUE (COMM) BLK (Ch A) BRN (+V) SWITCH SETTINGS Sensor also works for INP B	BLUE or WHT (Ch A) BLK (COMM) SWITCH SETTINGS Sensor is not applicable for INP B	B (COMM) C (Ch A) A (+V) SWITCH SETTINGS Sensor is not applicable for INP B	B (COMM) C (Ch A) A (+V) SWITCH SETTINGS Sensor also works for INP B
CUB5T	BLK (COMM) WHT (Ch A) RED (+V) SWITCH SETTINGS HESS or PSAH sensors only. Also applicable for INP B	NOT APPLICABLE	BLUE (COMM) BLK (Ch A) BRN (+V) SWITCH SETTINGS Sensor also works for INP B	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
DITAK7 DITAK8	WHT (Ch A) RED (+V) 4.8K 3 INP 1 GND V+ 2 DITAK w/MLPS	NOT APPLICABLE	BLK (Ch A) BRN (+V) 4.8K 3 INP 1 GND V+ 2 DITAK w/MLPS	WHT or BLUE 3 INP 1 GND	B (COMM) C (Ch A) A (+V) 4.8K 3 INP 1 GND V+ 2 DITAK w/MLPS	B (COMM) C (Ch A) A (+V) 4.8K 3 INP 1 GND V+ 2 DITAK w/MLPS
GEMINI 1	RED (+V) (DC OUT) 4 BLK (-) (COMM) 5 WHT (Ch A) (INPUT A) 7 SWITCH SETTINGS	BLK or BRN (DC OUT) 4 BLUE (INPUT A) 7 SWITCH SETTINGS	BRN (+V) (DC OUT) 4 BLU (-) (COMM) 5 BLK (Ch A) (INPUT A) 7 SWITCH SETTINGS	WHT or BLU (MAG PKUP) 6 BLK (COMM) 5 SWITCH SETTINGS	A (+V) (DC OUT) 4 B (-) (COMM) 5 C (Ch A) (INPUT A) 7 SWITCH SETTINGS	A (+V) (DC OUT) 4 B (-) (COMM) 5 C (Ch A) (INPUT A) 7 SWITCH SETTINGS
GEMINI 2, 3 or 4	RED (+V) (DC OUT) TBA 4 BLK (-) (COMM) TBC 5 WHT (Ch A) (INPUT A) TBC 3 SWITCH SETTINGS	BLK or BRN (DC OUT) TBA 4 BLUE (INPUT A) TBC 3 SWITCH SETTINGS	BRN (+V) (DC OUT) TBA 4 BLUE (-) (COMM) TBC 5 BLK (Ch A) (INPUT A) TBC 3 SWITCH SETTINGS	WHT or BLU (MAG PKUP) TBC 4 BLK (COMM) TBC 5 SWITCH SETTINGS	A (+V) (DC OUT) TBA 4 B (-) (COMM) TBC 5 C (Ch A) (INPUT A) TBC 3 SWITCH SETTINGS	A (+V) (DC OUT) TBA 4 B (-) (COMM) TBC 5 C (Ch A) (INPUT A) TBC 3 SWITCH SETTINGS

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SENSOR MODEL	ZCH, ZFH, ZGH, ZMD, ZOD, ZOH, ZPJ, ZRJ, ZRL, ZSD, RPGD	ZDH, ZLZ, ZNH, ZUK	ZBG, ZBH, ZHG	ZBG, ZBH (M12 Connector)	PRMDC, RCMDC, RRMD	PRDC, RCDC, RRDC
OLD MODEL	ARJ, LSM, LSQ, RPGO, RPGQ,	LE, RPGN	RPGB, RPGH	RPGB		
OUTPUT CONNECTIONS						
CUB4						
CUB5 (PRE 2004)						
CUB5B, CUB5R						
CUB5T	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE		
DITAK 7, DITAK 8						
GEMINI 1						
GEMINI 2, 3 or 4						

\* Designates wires from the listed counter.

SENSOR MODEL	ASTC, LMPC, ZFG, ZCG, HESS, PSAH	PSA1B PSA2B	PSA6B PSA7B PSA8B PSAFP PSAC	MP25TA MP37TA MP37CA MP62TA MP75TX	LMPEC	LMPCC
OLD MODEL	LSC RPGC					
OUTPUT CONNECTIONS						
GEM52	RED (+V) — TBA 4 (DC OUT) SWITCH SETTINGS BLK (-) — TBC 6 (COMM.) WHT (ChA) — TBC 4/2 (INPUT)	BLK or BRN — TBA 4 (DC OUT) SWITCH SETTINGS BLUE — TBC 4/2 (INPUT)	BRN (+V) — TBA 4 (DC OUT) SWITCH SETTINGS BLUE (-) — TBC 6 (COMM.) BLK (ChA) — TBC 4/2 (INPUT)	WHT or BLUE — TBC 5 (MAG. PKUP) SWITCH SETTINGS BLK — TBC 6 (COMM.)	A (+V) — TBA 4 (DC OUT) SWITCH SETTINGS B (-) — TBC 6 (COMM.) C (ChA) — TBC 4/2 (INPUT)	A (+V) — TBA 4 (DC OUT) SWITCH SETTINGS B (-) — TBC 6 (COMM.) C (ChA) — TBC 4/2 (INPUT)
IFMA IFMR	RED (+V) — 7 (+12V) SWITCH SETTINGS WHT (ChA) — 8 (INPUT) SRC LOGIC SNK BLK (-) — 9 (COMM.)	BLK or BRN — 7 (+12V) SWITCH SETTINGS BLUE — 8 (INPUT) SRC LOGIC SNK	BRN (+V) — 7 (+12V) SWITCH SETTINGS BLK (ChA) — 8 (INPUT) SRC LOGIC SNK BLUE (-) — 9 (COMM.)	WHT or BLUE — 8 (INPUT) SRC LOGIC SNK BLK (-) — 9 (COMM.)	A (+V) — 7 (+12V) SWITCH SETTINGS C (ChA) — 8 (INPUT) SRC LOGIC SNK B (-) — 9 (COMM.)	A (+V) — 7 (+12V) SWITCH SETTINGS C (ChA) — 8 (INPUT) SRC LOGIC SNK B (-) — 9 (COMM.)
IMI	RED (+V) — 5 (+12VDC) SWITCH SETTINGS BLK (-) — 7 (COMM.) MAG. PKUP. LOGIC SRC NPN OC WHT (ChA) — 6 (SIG. IN)	BLK or BRN — 5 (+12VDC) SWITCH SETTINGS BLUE — 6 (SIG. IN) 1.5K MAG. PKUP. LOGIC SRC NPN OC	BRN (+V) — 5 (+12VDC) SWITCH SETTINGS BLUE (-) — 7 (COMM.) MAG. PKUP. LOGIC SRC NPN OC BLK (ChA) — 6 (SIG. IN)	WHT or BLUE — 6 (SIG. IN) SWITCH SETTINGS BLK — 7 (COMM.) MAG. PKUP. LOGIC SRC NPN OC	A (+V) — 5 (+12VDC) SWITCH SETTINGS B (-) — 7 (COMM.) MAG. PKUP. LOGIC SRC NPN OC C (ChA) — 6 (SIG. IN)	A (+V) — 5 (+12VDC) SWITCH SETTINGS B (-) — 7 (COMM.) MAG. PKUP. LOGIC SRC NPN OC C (ChA) — 6 (SIG. IN)
LD20, LD40, LD2T, LD4T	RED (+V) — TBA 4 (DC +) SWITCH SETTINGS BLK (-) — TBA 5 (DC -) WHT (ChA) — TBB1 (INP A)	BLK or BRN — TBA 4 (DC +) SWITCH SETTINGS BLUE — TBB1 (INP A) 2.2K	BRN (+V) — TBA 4 (DC +) SWITCH SETTINGS BLUE (-) — TBA 5 (DC -) BLK (ChA) — TBB1 (INP A)	WHT or BLUE — TBB1 (INP A) SWITCH SETTINGS BLK — TBB4 (COMM.)	A (+V) — TBA 4 (DC +) SWITCH SETTINGS B (-) — TBA 5 (DC -) C (ChA) — TBB1 (INP A)	A (+V) — TBA 4 (DC +) SWITCH SETTINGS B (-) — TBA 5 (DC -) C (ChA) — TBB1 (INP A)
M LEGEND	RED (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLK (-) — TBA 4/5 (COMM.) WHT (ChA) — TBC 1 (INPUT A)	BLK or BRN — TBA 3 (DC OUT) SWITCH SETTINGS BLUE — TBC 1 (INPUT A) 2.2K	BRN (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLUE (-) — TBA 4/5 (COMM.) BLK (ChA) — TBC 1 (INPUT A)	WHT or BLUE — TBC 1 (INPUT A) SWITCH SETTINGS BLK — TBC 3 (COMM.)	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBA 4/5 (COMM.) C (ChA) — TBC 1 (INPUT A)	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBA 4/5 (COMM.) C (ChA) — TBC 1 (INPUT A)
LIBC1/LIBC2 LNXC1/LNXC2	RED (+V) — TBA 6 (DC OUT) SWITCH SETTINGS BLK (-) — TBA 5 (COMM.) WHT (ChA) — TBA 4 (CNT. IN)	BLK or BRN — TBA 6 (DC OUT) SWITCH SETTINGS BLUE — TBA 4 (CNT. IN)	BRN (+V) — TBA 6 (DC OUT) SWITCH SETTINGS BLUE (-) — TBA 5 (COMM.) BLK (ChA) — TBA 4 (CNT. IN)	<b>NOT APPLICABLE</b>	A (+V) — TBA 6 (DC OUT) SWITCH SETTINGS B (-) — TBA 5 (COMM.) C (ChA) — TBA 4 (CNT. IN)	A (+V) — TBA 6 (DC OUT) SWITCH SETTINGS B (-) — TBA 5 (COMM.) C (ChA) — TBA 4 (CNT. IN)
MDC	RED (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLK (-) — TBB 3 (COMM.) WHT (ChA) — TBB 2 (FB)	BLK or BRN — TBA 3 (DC OUT) SWITCH SETTINGS BLUE — TBB 2 (FB) 2.2K	BRN (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLUE (-) — TBB 3 (COMM.) BLK (ChA) — TBB 2 (FB)	WHT or BLUE — TBB 2 (FB) SWITCH SETTINGS BLK — TBB 3 (COMM.)	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBB 3 (COMM.) C (ChA) — TBB 2 (FB)	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBB 3 (COMM.) C (ChA) — TBB 2 (FB)

SENSOR MODEL	ZCH, ZFH, ZGH, ZMD, ZOD, ZOH, ZPJ, ZRJ, ZRL, ZSD, RPGD	ZDH, ZLZ, ZNH, ZUK	ZBG, ZBH, ZHG	ZBG, ZBH (M12 Connector)	PRMDC, RCMDC, RRMDC	PRDC, RCDC, RRDC
OLD MODEL	ARJ, LSM, LSQ, RPGO, RPGQ,	LE, RPGN	RPGB, RPGH	RPGB		
OUTPUT CONNECTIONS						
GEM52	RED (+V) — TBA 4 (DC OUT) SWITCH SETTINGS BLK (-) — TBC 6 (COMM.) MAG SRC HI FRQ HI BIAS WHT (Ch A) — TBC 42 (INPUT) LOGIC SRC LO FRQ LO BIAS	A (+V) — TBA 4 (DC OUT) SWITCH SETTINGS B (-) — TBC 6 (COMM.) MAG SRC HI FRQ HI BIAS C (Ch A) — TBC 42 (INPUT) LOGIC SRC LO FRQ LO BIAS	A (+V) — TBA 4 (DC OUT) SWITCH SETTINGS B (-) — TBC 6 (COMM.) MAG SRC HI FRQ HI BIAS C (Ch A) — TBC 42 (INPUT) LOGIC SRC LO FRQ LO BIAS	1 (+V) — TBA 4 (DC OUT) SWITCH SETTINGS 2 (-) — TBC 6 (COMM.) MAG SRC HI FRQ HI BIAS 3 (Ch A) — TBC 42 (INPUT) LOGIC SRC LO FRQ LO BIAS	BRN (+V) — TBA 4 (DC OUT) SWITCH SETTINGS BLUE (-) — TBC 6 (COMM.) MAG SRC HI FRQ HI BIAS WHT — TBC 42 (INPUT) LOGIC SRC LO FRQ LO BIAS	BRN (+V) — TBA 4 (DC OUT) SWITCH SETTINGS BLUE (-) — TBC 6 (COMM.) MAG SRC HI FRQ HI BIAS WHT — TBC 42 (INPUT) LOGIC SRC LO FRQ LO BIAS
IFMA IFMR	RED (+V) — 7 (+12V) SWITCH SETTINGS WHT (Ch A) — 8 (INPUT) SRC LOGIC SNK BLK (-) — 9 (COMM.)	A (+V) — 7 (+12V) SWITCH SETTINGS C (Ch A) — 8 (INPUT) SRC LOGIC SNK B (-) — 9 (COMM.)	A (+V) — 7 (+12V) SWITCH SETTINGS C (Ch A) — 8 (INPUT) SRC LOGIC SNK B (-) — 9 (COMM.)	1 (+V) — 7 (+12V) SWITCH SETTINGS 3 (Ch A) — 8 (INPUT) SRC LOGIC SNK 2 (-) — 9 (COMM.)	BRN (+V) — 7 (+12V) SWITCH SETTINGS WHT — 8 (INPUT) SRC LOGIC SNK BLUE (-) — 9 (COMM.)	BRN (+V) — 7 (+12V) SWITCH SETTINGS WHT — 8 (INPUT) SRC LOGIC SNK BLUE (-) — 9 (COMM.)
IMI	RED (+V) — 5 (+12VDC) SWITCH SETTINGS BLK (-) — 7 (COMM.) MAG PUP LOGIC NPN OC WHT (Ch A) — 6 (SIG. IN)	A (+V) — 5 (+12VDC) SWITCH SETTINGS B (-) — 7 (COMM.) MAG PUP LOGIC NPN OC C (Ch A) — 6 (SIG. IN)	A (+V) — 5 (+12VDC) SWITCH SETTINGS B (-) — 7 (COMM.) MAG PUP LOGIC NPN OC C (Ch A) — 6 (SIG. IN)	1 (+V) — 5 (+12VDC) SWITCH SETTINGS 2 (-) — 7 (COMM.) MAG PUP LOGIC NPN OC 3 (Ch A) — 6 (SIG. IN)	BRN (+V) — 5 (+12VDC) SWITCH SETTINGS BLUE (-) — 7 (COMM.) MAG PUP LOGIC NPN OC WHT — 6 (SIG. IN)	BRN (+V) — 5 (+12VDC) SWITCH SETTINGS BLUE (-) — 7 (COMM.) MAG PUP LOGIC NPN OC WHT — 6 (SIG. IN)
LD20, LD40, LD2T, LD4T	RED (+V) — TBA 4 (DC +) SWITCH SETTINGS BLK (-) — TBA 5 (DC -) SWITCH SETTINGS WHT (Ch A) — TBB 1 (INP A) GRN or BLUE — TBB 2 (INP B) <small>Only LD200P0/LD4006P0</small>	A (+V) — TBA 4 (DC +) SWITCH SETTINGS B (-) — TBA 5 (DC -) SWITCH SETTINGS C (Ch A) — TBB 1 (INP A) D (Ch B) — TBB 2 (INP B) <small>Only LD200P0/LD4006P0</small>	A (+V) — TBA 4 (DC +) SWITCH SETTINGS B (-) — TBA 5 (DC -) SWITCH SETTINGS C (Ch A) — TBB 1 (INP A) D (Ch B) — TBB 2 (INP B) <small>Only LD200P0/LD4006P0</small>	1 (+V) — TBA 4 (DC +) SWITCH SETTINGS 2 (-) — TBA 5 (DC -) SWITCH SETTINGS 3 (Ch A) — TBB 1 (INP A) 4 (Ch B) — TBB 2 (INP B) <small>Only LD200P0/LD4006P0</small>	BRN (+V) — TBA 4 (DC +) SWITCH SETTINGS BLUE (-) — TBA 5 (DC -) SWITCH SETTINGS WHT — TBB 1 (INP A)	BRN (+V) — TBA 4 (DC +) SWITCH SETTINGS BLUE (-) — TBA 5 (DC -) SWITCH SETTINGS WHT — TBB 1 (INP A)
LEGEND	RED — TBA 3 (DC OUT) SWITCH SETTINGS BLK — TBA 4/5 (COMM.) MAG SRC HI FRQ HI BIAS WHT — TBC 1 (INPUT A) LOGIC SRC HI FRQ HI BIAS GRN or BLUE — TBC 2 (INPUT B) LOGIC SNK HI FRQ HI BIAS	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBA 4/5 (COMM.) MAG SRC HI FRQ HI BIAS C (Ch A) — TBC 1 (INPUT A) LOGIC SRC HI FRQ HI BIAS D (Ch B) — TBC 2 (INPUT B) LOGIC SNK HI FRQ HI BIAS	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBA 4/5 (COMM.) MAG SRC HI FRQ HI BIAS C (Ch A) — TBC 1 (INPUT A) LOGIC SRC HI FRQ HI BIAS D (Ch B) — TBC 2 (INPUT B) LOGIC SNK HI FRQ HI BIAS	1 (+V) — TBA 3 (DC OUT) SWITCH SETTINGS 2 (-) — TBA 4/5 (COMM.) MAG SRC HI FRQ HI BIAS 3 (Ch A) — TBC 1 (INPUT A) LOGIC SRC HI FRQ HI BIAS 4 (Ch B) — TBC 2 (INPUT B) LOGIC SNK HI FRQ HI BIAS	BRN (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLUE (-) — TBA 4/5 (COMM.) MAG SRC HI FRQ HI BIAS WHT — TBC 1 (INPUT A) LOGIC SRC HI FRQ HI BIAS	BRN (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLUE (-) — TBA 4/5 (COMM.) MAG SRC HI FRQ HI BIAS WHT — TBC 1 (INPUT A) LOGIC SRC HI FRQ HI BIAS
LIBC1/LIBC2, LNXC1/LNXC2	RED (+V) — TBA 6 (DC OUT) SWITCH SETTINGS BLK (-) — TBA 5 (COMM.) SNK HI FRQ HI BIAS WHT (Ch A) — TBA 4 (CNT. IN) SRC LO FRQ LO BIAS	A (+V) — TBA 6 (DC OUT) SWITCH SETTINGS B (-) — TBA 5 (COMM.) SNK HI FRQ HI BIAS C (Ch A) — TBA 4 (CNT. IN) SRC LO FRQ LO BIAS	A (+V) — TBA 6 (DC OUT) SWITCH SETTINGS B (-) — TBA 5 (COMM.) SNK HI FRQ HI BIAS C (Ch A) — TBA 4 (CNT. IN) SRC LO FRQ LO BIAS	1 (+V) — TBA 6 (DC OUT) SWITCH SETTINGS 2 (-) — TBA 5 (COMM.) SNK HI FRQ HI BIAS 3 (Ch A) — TBA 4 (CNT. IN) SRC LO FRQ LO BIAS	BRN (+V) — TBA 6 (DC OUT) SWITCH SETTINGS BLUE (-) — TBA 5 (COMM.) SNK HI FRQ HI BIAS WHT — TBA 4 (CNT. IN) SRC LO FRQ LO BIAS	BRN (+V) — TBA 6 (DC OUT) SWITCH SETTINGS BLUE (-) — TBA 5 (COMM.) SNK HI FRQ HI BIAS WHT — TBA 4 (CNT. IN) SRC LO FRQ LO BIAS
MDC	RED (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLK (-) — TBB 3 (COMM.) MAG SRC WHT (Ch A) — TBB 2 (FB) LOGIC SNK	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBB 3 (COMM.) MAG SRC C (Ch A) — TBB 2 (FB) LOGIC SNK	A (+V) — TBA 3 (DC OUT) SWITCH SETTINGS B (-) — TBB 3 (COMM.) MAG SRC C (Ch A) — TBB 2 (FB) LOGIC SNK	1 (+V) — TBA 3 (DC OUT) SWITCH SETTINGS 2 (-) — TBB 3 (COMM.) MAG SRC 3 (Ch A) — TBB 2 (FB) LOGIC SNK	BRN (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLUE (-) — TBB 3 (COMM.) MAG SRC WHT — TBB 2 (FB) LOGIC SNK	BRN (+V) — TBA 3 (DC OUT) SWITCH SETTINGS BLUE (-) — TBB 3 (COMM.) MAG SRC WHT — TBB 2 (FB) LOGIC SNK

\* Designates wires from the listed counter.

SENSOR MODEL	ASTC, LMPC, ZFG, ZCG, HESS, PSAH	PSA1B PSA2B	PSA6B PSA7B PSA8B PSAFP PSAC	MP25TA MP37TA MP37CA MP62TA MP75TX	LMPEC	LMPCC
OLD MODEL	LSC RPGC					
OUTPUT CONNECTIONS						
PRS1 / PRA1	RED (+V) — 9 SWITCH SETTINGS BLK (-) — 8 SRC LOGIC SNK WHT (Ch A) — 7	BLK or BRN — 9 SWITCH SETTINGS BLUE — 7 SRC LOGIC SNK	BRN (+V) — 9 SWITCH SETTINGS BLUE (-) — 8 SRC LOGIC SNK BLK (Ch A) — 7	BLK — 8 SWITCH SETTINGS WHT or BLUE — 7 SRC LOGIC SNK	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SRC LOGIC SNK C (Ch A) — 7	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SRC LOGIC SNK C (Ch A) — 7
PRA2	RED (+V) — 9 SWITCH SETTINGS BLK (-) — 8 SNK LOGIC SRC WHT (Ch A) — 7 SW1 SW2	BLK or BRN — 9 SWITCH SETTINGS BLUE — 7 SNK LOGIC SRC SW1 SW2	BRN (+V) — 9 SWITCH SETTINGS BLUE (-) — 8 SNK LOGIC SRC BLK (Ch A) — 7 SW1 SW2	BLK — 8 SWITCH SETTINGS WHT or BLUE — 7 SNK LOGIC SRC SW1 SW2	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SNK LOGIC SRC C (Ch A) — 7 SW1 SW2	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SNK LOGIC SRC C (Ch A) — 7 SW1 SW2
PAXC, PAXI, PAXR	RED (+V) — 3 (+12V) SWITCH SETTINGS BLK (-) — 4 (COMM) WHT (Ch A) — 5 or 6 (INP A/B)	BLK or BRN — 3 (+12V) SWITCH SETTINGS BLUE — 4 (COMM) 2.2 KΩ BLUE — 5 or 6 (INP A/B)	BRN (+V) — 3 (+12V) SWITCH SETTINGS BLUE (-) — 4 (COMM) BLK (Ch A) — 5 or 6 (INP A/B)	BLK — 4 (COMM) SWITCH SETTINGS WHT or BLUE — 5 (INP A)	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 or 6 (INP A/B)	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 or 6 (INP A/B)
PAXC PAXI Dual Quad A	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
PAXC PAXI Dual Quad B	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
PAXLC, PAXLR, PAXLPT	RED (+V) — 3 (+12V) SWITCH SETTINGS BLK (-) — 4 (COMM) WHT (Ch A) — 5 (INP)	BLK or BRN — 3 (+12V) SWITCH SETTINGS BLUE — 4 (COMM) 2.2 KΩ BLUE — 5 (INP)	BRN (+V) — 3 (+12V) SWITCH SETTINGS BLUE (-) — 4 (COMM) BLK (Ch A) — 5 (INP)	BLK — 4 (COMM) SWITCH SETTINGS WHT or BLUE — 5 (INP) Not applicable for PAXLC.	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP)	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP)
PAXTM, PAXCK	NOT APPLICABLE	BLK or BRN — 3 (+12V) SRC BLUE — 4 (COMM) JUMPER 2.2 KΩ BLUE — 5 or 6 (INP A/B)	BRN (+V) — 3 (+12V) BLUE (-) — 4 (COMM) SNK BLK (Ch A) — 5 or 6 (INP A/B) JUMPER	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

SENSOR MODEL	ZCH, ZFH, ZGH, ZMD, ZOD, ZOH, ZPJ, ZRJ, ZRL, ZSD, RPGD	ZDH ZLZ ZNH ZUK	ZBG ZBH ZHG	ZBG ZBH (M12 Connector)	PRMDC RCMDC RRMDC	PRDC RCDC RRDC
OLD MODEL	ARJ, LSM, LSQ, RPGO, RPGQ,	LE, RPGN	RPGB RPGH	RPGB		
OUTPUT CONNECTIONS			<b>ZBG and ZBH</b>  <b>ZHG</b> 			
PRS1 / PRA1	RED (+V) — 9 SWITCH SETTINGS BLK (-) — 8 SRC LOGIC SNK WHT (Ch A) — 7	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SRC LOGIC SNK C (Ch A) — 7	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SRC LOGIC SNK C (Ch A) — 7	1 (+V) — 9 SWITCH SETTINGS 2 (-) — 8 SRC LOGIC SNK 3 (Ch A) — 7	BRN (+V) — 9 SWITCH SETTINGS BLUE (-) — 8 SRC LOGIC SNK WHT — 7	BRN (+V) — 9 SWITCH SETTINGS BLUE (-) — 8 SRC LOGIC SNK WHT — 7
PRA2	RED (+V) — 9 SWITCH SETTINGS BLK (-) — 8 SNK LOGIC SRC WHT (Ch A) — 7 SW1 SW2	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SNK LOGIC SRC C (Ch A) — 7 SW1 SW2	A (+V) — 9 SWITCH SETTINGS B (-) — 8 SNK LOGIC SRC C (Ch A) — 7 SW1 SW2	1 (+V) — 9 SWITCH SETTINGS 2 (-) — 8 SNK LOGIC SRC 3 (Ch A) — 7 SW1 SW2	BRN (+V) — 9 SWITCH SETTINGS BLUE (-) — 8 SNK LOGIC SRC WHT — 7 SW1 SW2	BRN (+V) — 9 SWITCH SETTINGS BLUE (-) — 8 SNK LOGIC SRC WHT — 7 SW1 SW2
PAXC, PAXI, PAXR	RED (+V) — 3 (+12V) SWITCH SETTINGS BLK (-) — 4 (COMM) WHT (Ch A) — 5 (INP A) GRN or BLUE (QUAD) — 6 (INP B)	A (+V) — 3 (+12V) SWITCH SETTINGS B — 4 (COMM) C (Ch A) — 5 (INP A) D (QUAD) — 6 (INP B)	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP A) D (QUAD) — 6 (INP B)	1 (+V) — 3 (+12V) SWITCH SETTINGS 2 (-) — 4 (COMM) 3 (Ch A) — 5 (INP A) 4 (QUAD) — 6 (INP B)	BRN (+V) — 3 (+12V) SWITCH SETTINGS BLUE (-) — 4 (COMM) WHT — 5 or 6 (INP A/B)	BRN (+V) — 3 (+12V) SWITCH SETTINGS BLUE (-) — 4 (COMM) WHT — 5 or 6 (INP A/B)
PAXC PAXI Dual Quad A	RED (+V) — 3 (+12V) SWITCH SETTINGS BLK (-) — 4 (COMM) WHT (Ch A) — 5 (INP A) GRN or BLUE (QUAD) — 7 (USER 1) User Jumper = SNK	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP A) D (QUAD) — 7 (USER 1) User Jumper = SNK	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP A) D (QUAD) — 7 (USER 1) User Jumper = SNK	1 (+V) — 3 (+12V) SWITCH SETTINGS 2 (-) — 4 (COMM) 3 (Ch A) — 5 (INP A) 4 (QUAD) — 7 (USER 1) User Jumper = SNK	NOT APPLICABLE	NOT APPLICABLE
PAXC PAXI Dual Quad B	RED (+V) — 3 (+12V) SWITCH SETTINGS BLK (-) — 4 (COMM) WHT (Ch A) — 6 (INP B) GRN or BLUE (QUAD) — 8 (USER 2) User Jumper = SNK	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 6 (INP B) D (QUAD) — 8 (USER 2) User Jumper = SNK	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 6 (INP B) D (QUAD) — 8 (USER 2) User Jumper = SNK	1 (+V) — 3 (+12V) SWITCH SETTINGS 2 (-) — 4 (COMM) 3 (Ch A) — 6 (INP B) 4 (QUAD) — 8 (USER 2) User Jumper = SNK	NOT APPLICABLE	NOT APPLICABLE
PAXLC, PAXLR PAXLPT	RED (+V) — 3 (+12V) SWITCH SETTINGS BLK (-) — 4 (COMM) WHT (Ch A) — 5 (INP)	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP)	A (+V) — 3 (+12V) SWITCH SETTINGS B (-) — 4 (COMM) C (Ch A) — 5 (INP)	1 (+V) — 3 (+12V) SWITCH SETTINGS 2 (-) — 4 (COMM) 3 (Ch A) — 5 (INP)	BRN (+V) — 3 (+12V) SWITCH SETTINGS BLUE (-) — 4 (COMM) WHT — 5 (INP)	BRN (+V) — 3 (+12V) SWITCH SETTINGS BLUE (-) — 4 (COMM) WHT — 5 (INP)
PAXTM, PAXCK	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	BRN (+V) — 3 (+12V) <input type="checkbox"/> BLUE (-) — 4 (COMM) SNK <input type="checkbox"/> WHT — 5 or 6 (INP A/B) JUMPER <input type="checkbox"/>	BRN (+V) — 3 (+12V) <input type="checkbox"/> BLUE (-) — 4 (COMM) SNK <input type="checkbox"/> WHT — 5 or 6 (INP A/B) JUMPER <input type="checkbox"/>

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