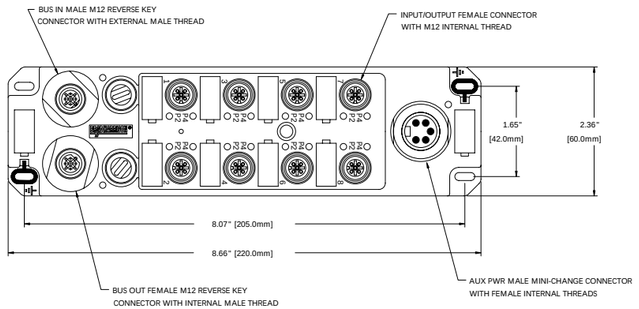
Active I/O Modules

Data Mapping

key *px,py = port number x, pin number y* *pxe = error flag for port x* *0 = off, 1 = on*

BIT	0	1	2	3	4	5	6	7
TDP-8C0-B18-02								
INPUT DATA BYTE 0	p7,p4	p5,p4	p3,p4	p1,p4	p2,p4	p4,p4	p6,p4	p8,p4
INPUT DATA BYTE 0	p7,p2	p5,p2	p3,p2	p1,p2	p2,p2	p4,p2	p6,p2	p8,p2
STATUS DATA BYTE	p7e	p5e	p3e	p1e	p2e	p4e	p6e	p8e
TPD-84A-B18-02								
INPUT DATA BYTE 0	–	p5,p4	p3,p4	p1,p4	p2,p4	p4,p4	p6,p4	–
INPUT DATA BYTE 1	–	p5,p2	p3,p2	p1,p2	p2,p2	p4,p2	p6,p2	–
OUTPUT DATA BYTE 0	p7,p2	p7,p4	–	–	–	–	p8,p4	p8,p2
STATUS DATA BYTE	p7e	p5e	p3e	p1e	p2e	p4e	p6e	p8e
TDP-888-B18-03								
INPUT DATA BYTE 0	p7,p4	p5,p4	p3,p4	p1,p4	p2,p4	p4,p4	p6,p4	p8,p4
OUTPUT DATA BYTE 0	p7,p2	p5,p2	p3,p2	p1,p2	p2,p2	p4,p2	p6,p2	p8,p2
STATUS DATA BYTE	p7e	p5e	p3e	p1e	p2e	p4e	p6e	p8e
TDP-888-B18-02								
INPUT DATA BYTE 0	p7,p4	p5,p4	p3,p4	p1,p4	p2,p4	p4,p4	p6,p4	p8,p4
OUTPUT DATA BYTE 0	p7,p2	p5,p2	p3,p2	p1,p2	p2,p2	p4,p2	p6,p2	p8,p2
STATUS DATA BYTE	p7e	p5e	p3e	p1e	p2e	p4e	p6e	p8e
TDP-808-B18-11								
INPUT DATA BYTE 0	p7,p4	p5,p4	p3,p4	p1,p4	p2,p4	p4,p4	p6,p4	p8,p4
OUTPUT DATA BYTE 0	p7,p2	p5,p2	p3,p2	p1,p2	p2,p2	p4,p2	p6,p2	p8,p2
TDP-80C-B18-02								
OUTPUT DATA BYTE 0	p7,p4	p5,p4	p3,p4	p1,p4	p2,p4	p4,p4	p6,p4	p8,p4
OUTPUT DATA BYTE 1	p7,p2	p5,p2	p3,p2	p1,p2	p2,p2	p4,p2	p6,p2	p8,p2
STATUS DATA BYTE	p7e	p5e	p3e	p1e	p2e	p4e	p6e	p8e

MODULE DIMENSIONS



Active I/O Modules

Specifications

PART NUMBER / DESCRIPTION	TDP-8C0-B18-02 16 INPUT, 2 PER PORT	TPD-8A4-B18-02 12 INPUT 2 PER PORT 4 OUTPUT @ 1 X 0.5A PER PORT	TDP-888-B18-03 8 INPUT 1 PER PORT 8 OUTPUT @ 1 X 0.5A PER PORT	TPD-888-B18-02 8 INPUT 2 PER PORT 8 OUTPUT @ 2 X 0.5A PER PORT	TDP-808-B18-11 8 OUTPUT @ 1 X 2A PER PORT	TDP-80C-B18-02 16 OUTPUT @ 2 X 0.5A PER PORT
SUPPLY POWER						
BUS VOLTAGE:	18-30V DC	18-30V DC	18-30V DC	18-30V DC	18-30V DC	18-30V DC
INTERNAL CURRENT CONSUMPTION:	100mA	100mA	100mA	100mA	100mA	100mA
MAX.TOTAL PER MODULE (OUTPUT CURRENT):	—	12A	12A	12A	12A	12A
INPUT CIRCUITS						
NUMBER:	16	12	8	8	—	—
TYPE:	3 WIRE PNP	3 WIRE PNP	3 WIRE PNP	3 WIRE PNP	—	—
SENSOR INPUT SUPPLY VOLTAGE:	24V NOMINAL	24V NOMINAL	24V NOMINAL	24V NOMINAL	—	—
SENSOR DRIVE CURRENT:	125mA	125mA	125mA	250mA	—	—
SWITCHING THRESHOLDS	LOW < 4mA HIGH > 8mA	LOW < 4mA HIGH > 8mA	LOW < 4mA HIGH > 8mA	LOW < 4mA HIGH > 8mA	—	—
INPUT TIME DELAY:	5mS	5mS	5mS	5mS	—	—
SWITCHING FREQUENCY:	250 Hz	250 Hz	250 Hz	250 Hz	—	—
OUTPUT CIRCUITS						
NUMBER:	—	4	8	8	8	16
TYPE:	—	CURRENT SOURCING	CURRENT SOURCING	CURRENT SOURCING	CURRENT SOURCING	CURRENT SOURCING
OUTPUT VOLTAGE (AUX. POWER):	—	18V TO 30V DC	18V TO 30V DC	18V TO 30V DC		
MAX. OUTPUT CURRENT PER PORT - SHORT CIRCUIT PROTECTED:	—	500mA	500mA	500mA	2A	500mA
SWITCHING FREQUENCY:	—	250 Hz	250 Hz	250 Hz	250 Hz	250 Hz
CONNECTIONS						
BUS IN:	5 POLE, INVERTED KEY MICRO-CHANGE-MALE	5 POLE, INVERTED KEY MICRO-CHANGE-MALE	5 POLE, INVERTED KEY MICRO-CHANGE-MALE	5 POLE, INVERTED KEY MICRO-CHANGE-MALE	5 POLE, INVERTED KEY MICRO-CHANGE-MALE	5 POLE, INVERTED KEY MICRO-CHANGE-MALE
BUS OUT:	5 POLE, INVERTED KEY MICRO-CHANGE-FEMALE	5 POLE, INVERTED KEY MICRO-CHANGE-FEMALE	5 POLE, INVERTED KEY MICRO-CHANGE-FEMALE	5 POLE, INVERTED KEY MICRO-CHANGE-FEMALE	5 POLE, INVERTED KEY MICRO-CHANGE-FEMALE	5 POLE, INVERTED KEY MICRO-CHANGE-FEMALE
POWER:	5 POLE MINI-CHANGE MALE PIN, MALE SHELL	5 POLE MINI-CHANGE MALE PIN, MALE SHELL	5 POLE MINI-CHANGE MALE PIN, MALE SHELL	5 POLE MINI-CHANGE MALE PIN, MALE SHELL	5 POLE MINI-CHANGE MALE PIN, MALE SHELL	5 POLE MINI-CHANGE MALE PIN, MALE SHELL
INPUTS AND OUTPUTS:	5 POLE MICRO-CHANGE (M12) FEMALE	5 POLE MICRO-CHANGE (M12) FEMALE	5 POLE MICRO-CHANGE (M12) FEMALE	5 POLE MICRO-CHANGE (M12) FEMALE	5 POLE MICRO-CHANGE (M12) FEMALE	5 POLE MICRO-CHANGE (M12) FEMALE
USER SETTINGS						
ADDRESSING:	0-99 DECIMAL, THROUGH TWO ROTARY DECIMAL SWITCHES	0-99 DECIMAL, THROUGH TWO ROTARY DECIMAL SWITCHES	0-99 DECIMAL, THROUGH TWO ROTARY DECIMAL SWITCHES	0-99 DECIMAL, THROUGH TWO ROTARY DECIMAL SWITCHES	0-99 DECIMAL, THROUGH TWO ROTARY DECIMAL SWITCHES	0-99 DECIMAL, THROUGH TWO ROTARY DECIMAL SWITCHES
INDICATORS BI-COLOUR LED						
BUS STATUS:						
GREEN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
RED	NO COMMUNICATION	NO COMMUNICATION	NO COMMUNICATION	NO COMMUNICATION	NO COMMUNICATION	NO COMMUNICATION
OFF	NO BUS POWER	NO BUS POWER	NO BUS POWER	NO BUS POWER	NO BUS POWER	NO BUS POWER
MODULE STATUS:						
GREEN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
RED	FAULT	FAULT	FAULT	FAULT	FAULT	FAULT
OFF	NO BUS POWER	NO BUS POWER	NO BUS POWER	NO BUS POWER	NO BUS POWER	NO BUS POWER
AUXILIARY POWER:						
GREEN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
RED	REVERSE POLARITY	REVERSE POLARITY	REVERSE POLARITY	REVERSE POLARITY	REVERSE POLARITY	REVERSE POLARITY
OFF	NO POWER	NO POWER	NO POWER	NO POWER	NO POWER	NO POWER
INPUT STATE:						
AMBER	INPUT ON	INPUT ON	INPUT ON	INPUT ON	INPUT ON	INPUT ON
RED	FAULT	FAULT	FAULT	FAULT	FAULT	FAULT
OFF	INPUT OFF	INPUT OFF	INPUT OFF	INPUT OFF	INPUT OFF	INPUT OFF
OUTPUT STATE:						
GREEN	—	OUTPUT ON	OUTPUT ON	OUTPUT ON	OUTPUT ON	OUTPUT ON
RED	—	FAULT	FAULT	FAULT	FAULT	FAULT
OFF	—	OUTPUT OFF	OUTPUT OFF	OUTPUT OFF	OUTPUT OFF	OUTPUT OFF
ENVIRONMENTAL						
OPERATING TEMPERATURE	32º TO 158º F (0º TO 70º C)	32º TO 158º F (0º TO 70º C)	32º TO 158º F (0º TO 70º C)	32º TO 158º F (0º TO 70º C)	32º TO 158º F (0º TO 70º C)	32º TO 158º F (0º TO 70º C)
STORAGE TEMPERATURE	23° TO 185° F (-5° TO 85°C)	23° TO 185° F (-5° TO 85°C)	23° TO 185° F (-5° TO 85°C)	23° TO 185° F (-5° TO 85°C)	23° TO 185° F (-5° TO 85°C)	23° TO 185° F (-5° TO 85°C)
PROTECTION:	WATERPROOF IP68	WATERPROOF IP68	WATERPROOF IP68	WATERPROOF IP68	WATERPROOF IP68	WATERPROOF IP68