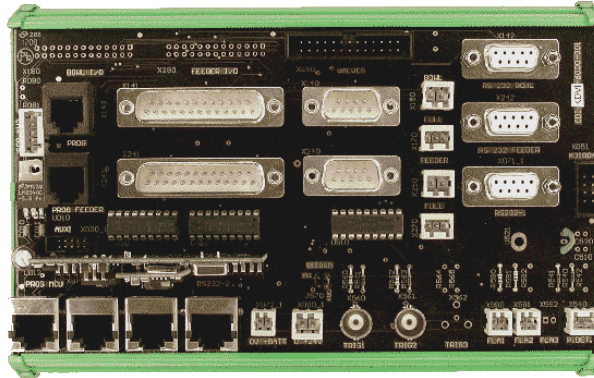


KDVI-6000 - MULTI-VISION CONTROL MODULE



DESCRIPTION

- Multifunction board for multi-cameras control with trigger outputs, QEI inputs, fast outputs and motor control outputs
- Designed for fast moving parts measures
- Configurable for up to 3 flash and 3 camera triggers all with NPN outputs
- TTL Quadrature interface input, compatible with KDAU-5400 RS422 QEI interface
- 1 x TTL PWM Interface for motor control compatible with KDAU-5300 interface
- 2 x RS232 interface, 1 x standard, 1 x TTL compatible with KDAU-5600 interface module
- Interrupt input for event detection
- 16 x NPN fast outputs on IDC for decentralization with KDAU-7500 module
- CAN Bus port
- KDIO Channel for standard I/O extension

TECHNICAL INFORMATION

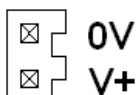
FONCTIONS

Function	Nb	Function	IO
RS232-1	2	USART	4
QEI	1	QEI	3
Event detection	1	INT	1
CAN	1	CAN	2
Triggers	3	Q	3
Flashes	3	Q	3
Fast outputs	15	Q	15
KDIO	1	KDIO	4+(2)
PWM	6		6
TOTAL			43
DETECTORS	15	RI	15
TOTAL			15

CONNECTORS

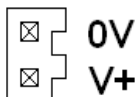
SUPPLY

X080 - 0 +24V - Wago 734-132



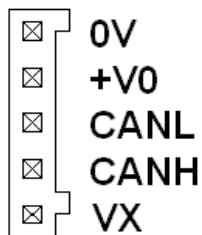
BATTERY

X070 - 0V +Batt (+3.3V) - Wago 733-332



CAN BUS

X081 - CAN Bus - Wago 733-335



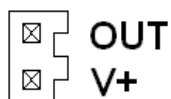
TRIGGERS CAMERAS

BNC 50 OHMS

Ref	Function	Id	Signal
X560	Camera 1 trigger	TRIG1	KDIO01/0
X561	Camera 2 trigger	TRIG2	KDIO01/1
X562	Camera 3 trigger	TRIG3	KDIO01/5

FLASH

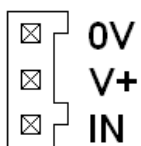
X580/X581/X582 Wago 733-332



Ref	Function	Id	Signal
X580	Flash 1	FLA1	KDIO00/3
X581	Flash 2	FLA2	KDIO00/4
X582	Flash 3	FLA3	KDIO00/5

EVENT DETECTION INTERRUPT INPUT

X540 - P.DET - WAGO 733-333 - KDIO00/3



KDVI-6000 - MULTI-VISION CONTROL MODULE

FAST OUTPUTS

X680 - FAST OUTPUTS

Flat cable connection	
Processor	Fast output connections
IDC-26 (2.54)	D-SUB25

IDC 26 SUB-D25												
14	15	16	17	18	19	20	21	22	23	24	25	-
1	2	3	4	5	6	7	8	9	10	11	12	13

IDC026 or SUBD-25M or SUBD-25F													
PIN	14	15	16	17	18	19	20	21	22	23	24	25	
OUT	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	-	-	-	+V0	
KDIOx	5/0	5/1	5/2	5/3	5/4	5/5	RA9	RA10					
KDIOx	0/0	3/0	3/2	3/3	3/4	3/5	4/4	4/5					
OUT	Q00	Q01	Q02	Q03	Q04	Q05	Q06	Q07	-	-	-	-	+V0
PIN	1	2	3	4	5	6	7	8	9	10	11	12	13

- KDIOx - refer to signal when connected to KDVI-6000 board

PC RS232 LINK

X071 RS232-1 - SUB-D 9F - Link to the PC with modem cable 1 1 M-F

Pin	Function
2	TXD
3	RXD
5	0V
4	Shorted with 6
6	Shorted with 4

KDVI-6000 - MULTI-VISION CONTROL MODULE

OTHER CONNECTORS

Ref	Function	Id	Signal	Connector
X030	PROG MCU	PROG MCU	-	RJ-45
X031	RS232-2	RS232-2	KDIO00	RJ-45
X032	ENCODER	QEI	KDIO01	RJ-45
X033	MOTOR PWM	PWM	KDIO02	RJ-45
X051	I/O EXTENSION	KDIO04	KDIO04	IDC08

BOWL CARDS

POWER OUTPUT (VIBRATION)

X150/X250 - BOWL/FEEDER - CON WAGO 734-132

PIN	FUNCTION	SIGNAL
1	OUT +	OUT+
2	OUT -	OUT-

FULL INPUTS

X170/270 - FULL - WAGO 733-333

PIN	FUNCTION	SIGNAL
1	0V	
2	+24V	
3	Signal	I00

BOWLS CARDS I/Os

X180/280 - BOWL I/O / FEEDER I/O - IDC-26 (2.54) D-SUB25

IDC 26 SUB-D25												
14	15	16	17	18	19	20	21	22	23	24	25	-
1	2	3	4	5	6	7	8	9	10	11	12	13

Spare, not used. See schematics for I/Os affectation.

MECHANICAL

DIMENSIONS

- Dimensions L 194mm x H 126mm x B 76mm
- Conform for rail mount for norms DIN EN 50022, DIN EN 50035 & DIN EN 50045