# CDD6

# **Computec Door Drive 6**

# Lift door controller

# **QUICK REFERENCE**

<u>Note:</u> the complete user manual can be downloaded from the website <u>www.computecelectronics.com</u>





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#### **Reference Codes and Standards**

All the references to the Standards and Codes are reported in the user manual.

#### **Door Drive Data**

Supply Voltage	[100 ; 240]Vac 1-ph 50-60Hz, (115V – 20%, 230V + 30%)	Vac
Available Peak Output Power	300	VA
Nominal Output Power	200	VA
Operating temperature	[-10; +60]	°C
Humidity	[20;80] non condensing	%
Electrical Protection	Fuse [5x20, 4A] fast on the main power supply line	
	Fuse [5x20, 8A] on battery power line	-
<b>Environmental Protection</b>	IP-54 case	-

#### **Compatible motors data**

(Code) Motor Type / Transmission / Encoder	Nominal power	Nominal Voltage	Nominal current
DC Motors			
(12) GR 63x25 + SG80K (15:1) + Enc100	50VA	24V	2.7A
(13) GR 63x55 + SG120 (15:1) +Enc100	100VA	24V	4.9A
(20) M63x50 + SN40 (15:1) + IGO100/2	100VA	24V	4.9A
(21) M63x25 + SN31 (15:1) + IGO100/2	100VA	24V	2.7A
(23) M48x60 + SN 22,6 (7:1) + IGO100/2	50VA	24V	2.6A
(01) Moog™ 1Nm (4:1 belt) + Enc500	100VA	24V	3.6A
(02) Moog™ 2Nm (4:1 belt) + Enc500	200VA	24V	6.0A
(02) Siboni <sup>™</sup> 2Nm 65/75PL130	200VA	60V	7.1A
(03) Siboni <sup>™</sup> 65PC132 (4:1 belt) + Enc500	150VA	65V	2.7A
(04) Siboni™ 65PC132 QKS 11	150VA	65V	2.7A
(24) Sidoor <sup>™</sup> M2 (Siemens <sup>™</sup> )	43VA	24V	1.8A
(25) Sidoor™ M3 or M4 (Siemens™)	120VA	30V	4.0A
(17) AT25 <sup>™</sup> M63x25 24V (Siemens <sup>™</sup> )	70VA	24V	2.8A
(18) AT25™ M63x55 30V (Siemens™)	120VA	30V	4.0A
(30) S78L <sup>™</sup> (Prisma <sup>™</sup> FOX)	100VA	24V	5.6A
(31) M63x60/I + P63Z + IGO100/2 (Sele™)	150VA	40V	3.0A
Brushless Motors			
(14) BG 62x60 + SG120 (15:1) + Enc100	130VA	40V	3.9A
(16) BG 62x30 + SG80K (15:1) + Enc100	70VA	40V	2.2A
(28) 1A (Prisma™ Jaguar)	160VA	40V	4.0A
(29) 2A (Prisma™ Jaguar)	320VA	40V	8.0A
DC Motors for Magnet switches applications			
(05) DC 1Nm comp. F28™/LMDC2010™	100VA	24V	3.6A
(06) DC 2Nm comp. F29™/LMDC2011™	200VA	24V	6.0A
(07) DC 1Nm comp. Digidoor™ 1Nm	100VA	24V	3.6A
(08) DC 2Nm comp. Digidoor™ 2Nm	200VA	24V	6.0A
(19) Siboni™ 65PC132 Poly V	150VA	65V	2.7A
(22) Siboni <sup>™</sup> 65PC132 Poly V Digidoor <sup>™</sup> 1Nm	150VA	65V	2.7A

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#### CDD6.0

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#### Installation

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The installation of the drive has to be performed by expert technical personnel, having all the professional requirements expected, based on the active law in the installation country.

Before proceeding with the installation of the device, please verify the necessary safety equipment; check also the necessary instrument to execute all the installation operations. Be sure to work in safe conditions, taking the complete system in inspection mode before starting any activity.

The CDD 6.0 device works inside the complete car door operator, consisting of:

- Mechanical Door Operator: panels, carriages, belt, motor.
- Door drive (the CDD6)
- Parallel or CAN bus interface to the main lift controller

Below it is represented the Device Connection Scheme:



#### The door controller has:

N°	ID	Descrizione
1	ON	Power on button
2	OFF	Power off button
3	Display	7-segments (2 digits) for the visualization of the door drive status or programming
4	"1" "2" "3" "4"	Functional buttons for visualization/movement/programming
5	X8	external device connection for diagnostic, configuration and upgrade
6	X4	Motor and battery connector
7	X5	RJ45 Motor encoder connector
8	X9	Direct connection for light curtains, including 24Vdc power supply
9	X3.1	Connection of the commands from main lift controller
10	X3.2	Connection of the local contacts installed on the car
11	X2	Connection of the outputs to the main lift controller
12	X1	Connection of the main power supply
13	X10	CAN bus connector

Please refer to the self-explicative cover sticker for the connection details.

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#### **Check of Electrical parts**

Verify the presence of the correct supply voltage, as reported in the technical specifications. Once the mechanical installation of the CDD6 drive is completed, proceed as reported below.

Step	Operation	Desc	ription		•
	Preliminary checks	Press	OFF butto	on on the d	oor drive front panel.
0		Be sur	e that no	power sup	oply is present.
	Motor Connections	1.Coni	nect the n	notor cable	e to the pins of the X4 connector:
	RJ45 (A)	PIN	DC mo	tors	Brushless motors
	X4	43	Positiv	e (Brown)	phase A (Blue or Red or 1)
		44	Negativ	ve (White)	phase B (Black or 2)
		45	-		phase C (Brown or 3)
ł		28	Shield		Shield
_		Keeni	n any casi	e the nrevi	ous connection order in case no
1		number from t	ering ring he one de esent, cor	s are prese escribed.	encoder cable with its RJ45 male to the
		3.If pro-	esent, cor egative (-)	nnect the e pins of the	external battery kit to the positive (+) e X4 connector.
	MILC Interface connection	procee	ed as follo ctors as tl	bwing repo hey are.	rted, otherwise plug the previous
		Check the common voltage used, and the used contacts:			e used, and the used contacts:
	AUXC42	Com	mon	Cor	inections
		Inter	Internal 24V_DD Check the pres		eck the presence of the 37-38 bridge as
		(CDD	96)	GN	D reference
		Exter	rnal 24V_I	EC Ren	nove the 37-38 bridge, only in case
		(MLC	C)	the car	re are no local contact installed on the roof
	(((()))) = = = = = = = = = = = = = = = =	For fu	rther info	rmation pl	ease refer to the door drive manual
	23	Conne	ection of t	he MI C co	mmands and of the local contacts:
_	X3.1	For en	coder ap	plications	
2		PIN	Name	X3.1 Pin	Description
		15	24V	Commor	24V, available for MLC commands
		5	DOC	Opening	command
		3	DCC	Closing c	ommand
		22	RSC	Reduced	speed command
		23	RVC	Reversin	command from detector
		39	FFC	Fire-Figh	- ting mode enable input
		PIN	Name	X3.2 Pin	Description
		42	AUXC	Program	mable Auxiliary input
		41	DTBC	Second T	B management input
		40	EOC	Battery E	vacuation floor input
		38	OV IN	GND inp	ut for the photo-coupled inputs
		37	OV DD	Auxiliarv	GND of the door drive for the inputs
		21	BUZS	Contact f	for Acoustic signal
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		For ma	agneti	c switch	es applications	
		PIN	Nam	e X3	.1 Pin Description	
		15	24V	Со	mmon 24V, available for MLC	
				cor	mmands	
		5	DOC	Ор	ening command	
		3	DCC	Clo	osing command	
		22	RSC	Re	duced speed command	
		23	RVC	Re	versing command from detector	
		39	LC (FI	FC) Do	or closed limit switch	
		PIN	Nam	ie X3	.2 Pin Description	
		42	RC (AUXC	Clo C)	osing deceleration limit switch	
		41	RA (DTBC	Op	ening deceleration limit switch	
		40	LA (E	OC) Do	or open limit switch	
		38	0V_I	N GN	ID input for the photo-coupled inputs	
		37	0V_0	DD Au inp	xiliary GND of the door drive for the outs	
		21	BUZS	S Co	ntact for Acoustic signal	
			•			
	С + [36]	PIN		Name	X2 Pin Description	
3	AUXS 33 34 DCS 19 18 N.C. DOS 10 10 N.C.	1, 4,	2	Rev.	Reversal relay	
		16.1	7	Open	Door open relay	
		18, 1	9	Close	Door closed relay	
		34 35 36 ALIX Auxiliary (Alarm signal by default)				
		Diese		<u>AUX</u>	Auxiliary (Alarm Signal by default)	
		$r_{NC}$ by default open/closed door relays are N C (they open in the				
		final position) The behavior logic can be changed in the				the
		settin	settings P-76 (door relay closed). P-77 (door relay open).			
	×2		65 1			n)
			n dooi	r drive	is not nowered, the contacts are always	en). avs
	ΧZ	When	n dooi H	r drive	is not powered, the contacts are alway	en). ays
	×2	When closed	n dooi d.	r drive	is not powered, the contacts are alwa	en). ays
	×2 X10	When closed	n dooi d.	r drive	is not powered, the contacts are alwa	en). ays
	×2 X10	When closed PIN	n door d. <b>X10</b>	r drive	is not powered, the contacts are alwa	en). ays
	X2 X10 Shield [S]	When closed PIN	x10	r drive	cription	en). ays
Λ	X2 X10 Shield S	When closed PIN T	x10	Pin Desc	cription (connect bridge from T and L)	en). ays
4	XZ X10 Shield S High H	When closed PIN T L	x10 Tern CAN	Pin Desc nination BUS Lov	cription (connect bridge from T and L) v signal	en). ays
4	X2 X10 Shield S High H Low L	When closed PIN T L H	x10 X10 CAN CAN	Pin Desc nination BUS Lov	cription (connect bridge from T and L) v signal	en). ays
4	X2 X10 Shield S High H Low L	When closed T L H S	x10 X10 Tern CAN CAN Shie	Pin Desc Pin Desc nination BUS Lov BUS Hig Id (GND)	cription (connect bridge from T and L) v signal	en). ays
4	XZ X10 Shield S High H Low L Termination T	When closed T L H S	x10 X10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND)	cription (connect bridge from T and L) v signal th signal	en). ays
4	X2 X10 Shield S High H Low L Termination T	When closed T L H S Conne	x10 X10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND)	rtain (if present)	en). ays
4	X2 X10 Shield S High H Low L Termination T Gnd 33 Cond 33 Cond 33	When closed T L H S Conne	x10 X10 Tern CAN CAN Shie	Pin Desc Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin	rtain (if present)	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 DETC 32	When closed T L H S Conne PIN 30	x10 X10 Tern CAN CAN Shie ect the	Pin Desc nination BUS Lov IBUS Hig Id (GND) Light cu X9 Pin Not cor	cription         (connect bridge from T and L)         v signal         th signal         the contracts are alway	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31	When closed T L H S Conne PIN 30	x10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin Not cor	cription (connect bridge from T and L) v signal th signal rtain (if present) Description nnected - to help common wire tions	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31	When closed T L H S Conne PIN 30	x10 X10 Tern CAN CAN Shie	Pin Desc Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin Not cor connec +24//00	cription         (connect bridge from T and L)         v signal         th signal         )         rtain (if present)         Description         nnected - to help common wire         ttions         C maximum 100mA	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31 Free 30 DETC Tr	When closed T L H S Conne PIN 30 31	x10 X10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin Not cor connec +24VD0	cription         (connect bridge from T and L)         v signal         th signal         main (if present)         Description         mected - to help common wire         tions         C maximum 100mA         in compared the statue pin of the DND NO.	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31 Free 30 X9 Rx Tx	When closed T L H S Conne PIN 30 31 32	x10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin Not cor connec +24VD0 Input p	cription         (connect bridge from T and L)         w signal         th signal         th signal         matching         Description         nnected - to help common wire         tions         C maximum 100mA         in: connect the status pin of the PNP NO	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31 Free 30 X9	When closed T L H S Conne PIN 30 31 32	x10 X10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu Not cor connec +24VDC Input p or NC d	cription         (connect bridge from T and L)         w signal         th signal         th signal         mected - to help common wire         ctions         C maximum 100mA         in: connect the status pin of the PNP NO         detector         asia	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31 Free 30 Rx Tx X9	When closed T L H S Conne PIN 30 31 32	x10 X10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin Not cor connec +24VD0 Input p or NC d (P-31 L	cription         (connect bridge from T and L)         w signal         th signal         the contacts are alway         prtain (if present)         Description         nnected - to help common wire         tions         C maximum 100mA         in: connect the status pin of the PNP NO         detector         ogic)	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31 Free 30 X9	When closed T L H S Conne PIN 30 31 32 33	x10 Tern CAN CAN Shie	Pin Desc nination BUS Lov BUS Hig Id (GND) Light cu X9 Pin Not cor connec +24VD0 Input p or NC d (P-31 Lu OV	cription         (connect bridge from T and L)         w signal         th signal         th signal         matched - to help common wire         tions         C maximum 100mA         in: connect the status pin of the PNP NO         detector         ogic)	en). ays
4	XZ X10 Shield S High H Low L Termination T Gnd 33 DETC 32 +24V 31 Free 30 Rx Tx X9	When closed T L H S Conne PIN 30 31 32 33 D6: Quick	x10 X10 Tern CAN CAN Shie ect the	Pin Desc nination BUS Low BUS Hig Id (GND) Light cu X9 Pin Not cor connec +24VD0 Input p or NC d (P-31 Lu OV	cription         (connect bridge from T and L)         w signal         sh signal         of the present         Pescription         nnected - to help common wire         tions         C maximum 100mA         in: connect the status pin of the PNP NO         detector         ogic)         3	en). ays

6	Power supply connection $L \xrightarrow{PE = 0} 0 X1$	Nominal Supply Voltage: [100 – 240]Vac [50-60]Hz, single phase Range: [115-20%, 230+30%]Vac
7	Final Checks	Verify that required signals are connected, <b>then apply the cover</b> . For further information please refer to to the user manual.

### **HMI user interface**

	ENTER - LEARN LAST LEARN ALARM RESET	ESC CONFIG INSP >>NORMAL INSP. NORMAL >>INSP. NORMAL	Handset	
Auto-set: ON + Key1	1 2 3 (press for >3s to access config	<mark>4</mark> "		

MODE		NORMAL	INSPECTION	CONFIGURATION
Description		Normal mode (automatic): the door drive executes the commands from MLC	Inspection mode (manual): the door drive executes commands from the panels keys	Configuration mode: parameters Programming
(0	NORMAL	ON	OFF	OFF
ED	INSP	OFF	ON	OFF
	CONFIG	OFF	OFF	ON
	1	Key 1 and key 4 pressed together per t>3s: Configuration mode access		Enter Access to parameter value OR Parameter value saving and return to parameters list
S	2	Pressed and keep pressed (t>3s): Last alarm code showed ("no AL" if no alarm present)	Door opening Pressed and keep pressed (t>5s) together key 3: enable or disable Motor torque	+ Increase Parameter index, OR Increase Parameter value
KEYS	3	Pressed for t>3s when last alarm is showed: reset of the last alarm codes ("no AL")	Door closing Pressed and keep pressed (t>5s) together key 2: enable or disable Motor torque	- Decrease Parameter index, OR Decrease Parameter value
	4	Access to <b>Inspection</b> mode (if only key 4 pressed for t<1s) Access to <b>Configuration</b> mode (if Key 1 and key 4 pressed together for t>3s)	Return to <b>Normal</b> mode	<b>Esc</b> Exit from parameter selection OR Exit from Configuration mode and return to Normal mode
C	DISPLAY	Door drive status showed: "", "OP", "CL", "IM", "AL",	Door drive status showed: "", "OP", "CL", "IM", "AL",	Parameter list: "P" alternate to the parameter index. Parameter modification: parameter value showed
	NOTES	This is the default mode at the power on of the door drive. ALL inputs are active	ALL the signal from the MLC are not active	Parameter selection: "P" showed alternate to the parameter index
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#### Door set-up, Learning and functional test

Once the installation phase described in the previous paragraph is completed, it is possible to proceed with the power on of the device and its configuration. In case of problems during the execution of the phases, please refer to the user manual.



STEP	Operation	Description	Notes
1	Power supply test	Connect the main power supply. Press key and checks the front panel display as indicated. Then press key.	BB followed by
		Put the door panels near to the panels closed position (gap<10cm), then press and keep pressed key 1 on the door drive front panel. Press Ney, checking that "SL" is shown on the door drive display, then release key 1. Floor with DTBC contact active (not available for magnetic switches application): AUTOSET for second TB floor will start automatically.	NORMAL, INSP. and CONFIG LEDS are all ON SL fixed Auto-set for DTBC contact: S2 fixed
2	AUTOSET execution	<ul> <li>The door starts the auto-set procedure auto-detecting: <ul> <li>the closing rotation</li> <li>the skate space</li> <li>the door movement space</li> <li>the door closing torque profile to optimize the closing force detection</li> </ul> </li> <li>In case the of errors or alarms, proceed with the checks suggested in the user manual.</li> </ul>	In case or error: Er alternate to the error code. In case of alarm: RL alternate to the alarm code.
		is suggested but not necessary to couple car and landing door, executing the operations from the car roof in inspection mode. The learning phase is completed.	<mark>□</mark> P fixed

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		Check ar installed	nd config d door op	Refer to the user manual for the	
		5.1):		information about access to	
		P05	SET	Car door locking device: 0 = not present, 1 = present	Configuration Mode.
		P22	CHECK	Motor Closing rotation: 0 = clockwise	
3	Door operator configuration (check & set)	P28	CHECK	Skate type: 02 = S20 09 = S90	
		P90	CHECK	12 = S120 Installed motor type: 00 = self-recognized (not for all motors) XX = manual selected motor type	
		P91	CHECK	Self-recognized motor type: 00 = autoset procedure requested!? XX = recognized motor type	
		P99 :	SET	MLC commands logic 0 = H active and RSC forced closing 1 = L active and RSC reduced speed 2 = H active and RSC reduced speed 3 = L active and RSC forced closing	
				4 = CAN BUS	Oonerg
4	Inspection mode	check the INSP. LED is ON.			des e
		Press co	ntinuou	sly key 3 to execute the door	Display visualization:
5	Speed Profiles check in Inspection mode	closing with normal speed, until the door is completely closed.			L blinking
		Press continuously key to execute the door opening with normal speed, until the door is completely opened.			□P blinking □P fixed (open)
		In case i please re	t is nece efer to t		
6	Check of door movements and	Check th NORMA to check	ne door i L mode the con		
	NORMAL MODE	<ul> <li>move the door in opening and closing</li> <li>Door reversing in case of obstacle</li> <li>Door reversing from light curtains signal</li> </ul>			ED NORMAL ON

#### Installation Trouble-shooting

The installation sequence previously reported describes all the steps that have to be executed to operate a correct and complete set-up of the door system.

In case of issues, or anomalous behaviors happen during the installation, please refer to the user manual, part related to problems and solutions.

For any alarms, please refer to the user manual, part related to the Alarms.

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