

ZENER 8000

Instruction Sheet

Part Number: Z800020 (Pendant only)
Z800021 (Pendant with cable fitted – with 0 metres)
Z800022 (Screened cable only)

Description: Control Pendant with STOP, FWD, REV & POT

Compatibility: ZENER 8000
MSC-3 or older

Document Ref.: IM00150 rev B

Summary:

The pendant provides remote control of the variable speed drive.
The cable is screened with a clear sheath.

The standard switch configuration is a twist to release STOP switch, forward and a reverse switch. A 5Kohm potentiometer is included to control the motor speed. There is a spare hole and 4 conductors available for other controls as required.

Terminals & Cable Numbers:

Below is a standard wiring configuration adopted to promote consistency. The cables are numbered for ease of identification. Refer to the table below for wiring.

Setup/configuration

- The digital inputs must be configured as shown in the diagram below.
- 'Reverse' operation must be enabled.
- Analogue input AI (10,11) must be setup for 5VDC.

Recommended ZENER 8000 connection:



Specification:

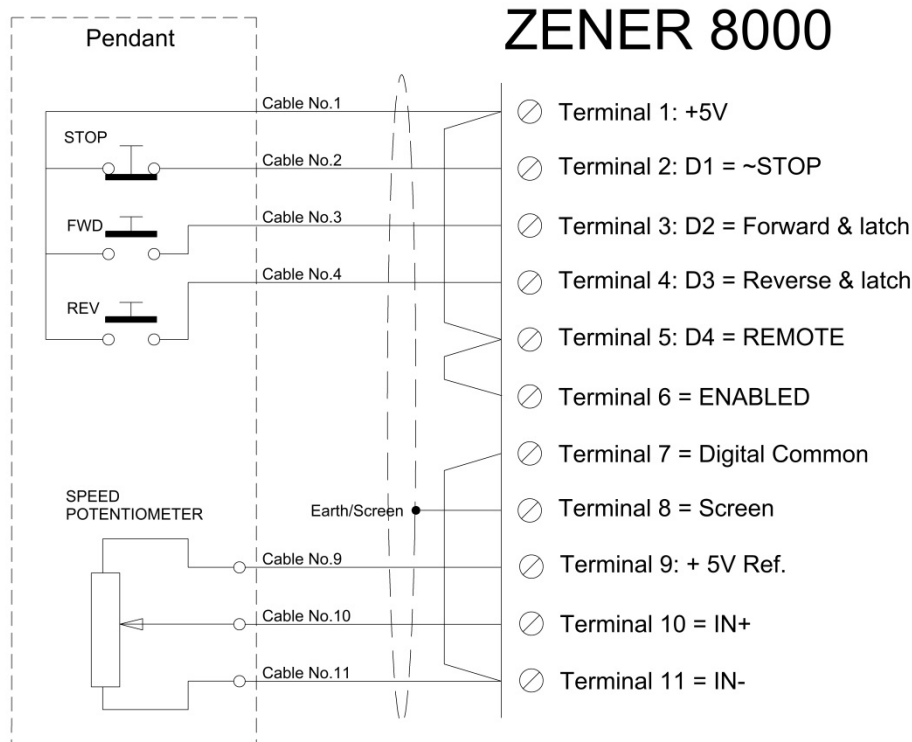
Switches: Stop (Normally closed contact)
FWD (Normally open contact)
REV (Normally open contact)

Hole qty/size: 22mm Diameter, 5 holes

Potentiometer: 5Kohm

Cable:
Type: Screened 0.75mm 11 core + earth
Conductors labelled 1-11

Cable length: As required.
Max 40m recommended



Other ZENER VSD Connections (typical):

Cable Number	Description	MSC-3 Connection	MSC-3 DSPII	ZENER 8000
1	+5Vdc (switch common)	Terminal 1	Terminal 1	Terminal 1
2	STOP (N/C)	Terminal 2	Terminal 2	Terminal 2
3	FWD & Latch (N/O)	Terminal 3	Terminal 3	Terminal 3
4	REV & Latch (N/O)	Terminal 4	Terminal 4	Terminal 4
Screen/Earth	Screen	Terminal 8	Terminal 8	Terminal 8
9	Potentiometer +5v Ref.	Terminal 9	Terminal 9	Terminal 9
10	Potentiometer +IN	Terminal 10	Terminal 10	Terminal 10
11	Potentiometer -IN/COM	Terminal 11 & 12	Terminal 11 & 7	Terminal 11 & 7
These terminals need to be bridged		Terminal 1-5-6	Terminal 1-5-6	Terminal 1-5-6

Drive configuration:

Zener 8000 Configuration:

- i) Configure the digital inputs:
 1. Press ESC to access menu and scroll down to 'G00 Input/Output' & press ENTER.
 2. 'Digital Input Config' is displayed. Press ENTER to access.
 3. 'G01 DI Config - Standard' is displayed. Change this to 'Forward/Reverse' by pressing ENTER to edit and use UP/DOWN to scroll. Press ENTER to select & save 'Forward/Reverse'.
 4. Press ESC to exit.

- ii) Configure the analogue input for 0-5V (potentiometer):
 1. Scroll Down to 'Analogue Input Config' and press ENTER
 2. 'AI(10,11)' is displayed. Press ENTER
 5. 'G028 AI Config - 0-10V' is displayed. Change this to '0-5V' by pressing ENTER to edit and use UP/DOWN to scroll. Press ENTER to select.
 3. Press ESC until 'G00 Input/Output' is displayed.

- iii) The default setting for "reverse" operation is disabled so must be enabled. This is located in the 'PROTECTION' menu.
 1. Scroll UP to the PROTECTON MENU' and press ENTER to access.
 2. Scroll down to 'REVERSE' and press ENTER.
 3. Press ENTER to EDIT and change to 'ENABLED'. Press ENTER to select and save.
 4. Press ESC to exit menu, remembering to press ENTER when prompted to save changes.

The above are typical connections for the ZENER Variable Speed Drive. It is recommended that this is checked against the manual of the equipment in which this pendant is being fitted to ensure the correct installation.