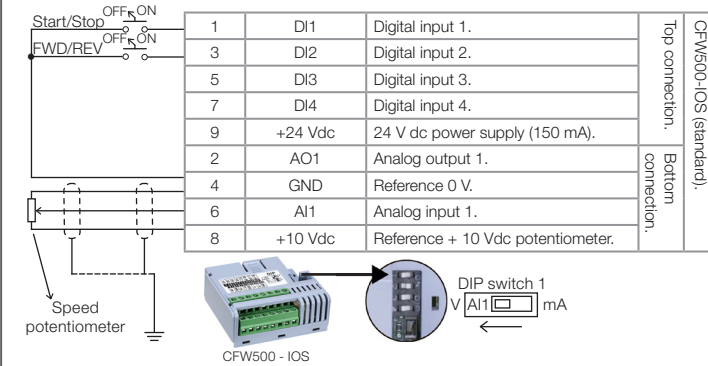




## TYPICAL CONTROL CONNECTION

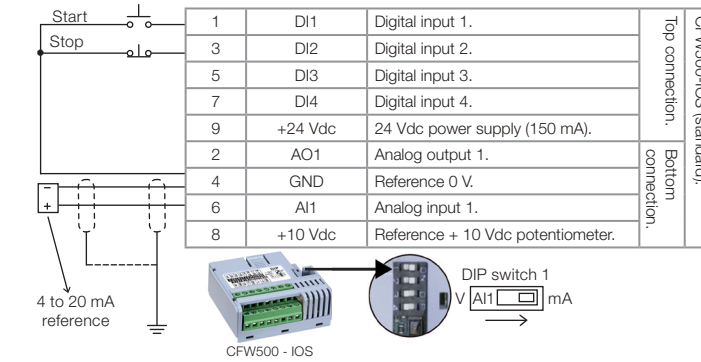
### Example 1: 2 - Wire Start/Stop, Speed Potentiometer



Note: (\*) The digital input 2 (DI2) can also be used as input in frequency (FI). For further details refer to the programming manual of the CFW500.

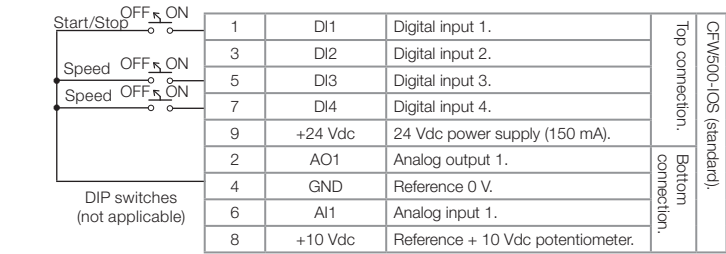
Prog	DEF	User	Description
P0220	2	1	Local/Remote = Always Remote.
P0222	1	1	Remote Reference = AI1.
P0226	4	4	FWD/REV = DIx.
P0227	1	1	Run/Stop Remote = DIx.
P0231	0	0	AI1 = Speed Reference.
P0233	0	0	AI1 = 0 to 10 V.
P0263	1	1	DI1 = Run/Stop.
P0264	8	8	DI2 = Clockwise Rotation Direction.

### Example 2: 3 - Wire Start/Stop, 4 to 20 mA Reference



Prog	DEF	User	Description
P0220	2	1	Local/Remote = Always Remote.
P0222	1	1	Remote Reference = AI1.
P0227	1	1	Run/Stop Remote = DIx.
P0231	0	0	AI1 = Speed Reference.
P0233	0	1	AI1 = 4 to 20 mA.
P0263	1	6	DI1 = Start.
P0264	8	7	DI2 = Stop.

### Example 3: 2 - Wire Start/Stop, Multispeed (4 Speeds)



Prog	DEF	User	Description
P0220	2	1	Local/Remote = Always Remote.
P0222	1	8	Remote Reference = Multispeed.
P0227	1	1	Run/Stop Remote = DIx.
P0263	1	1	DI1 = Run/Stop.
P0265	20	13	DI3 = Multispeed.
P0266	10	13	DI4 = Multispeed.
P0124	3.0	▲	Speed = ▲ (DI3 = Open and DI4 = Open).
P0125	10.0	▲	Speed = ▲ (DI3 = Open and DI4 = Closed).
P0126	20.0	▲	Speed = ▲ (DI3 = Closed and DI4 = Open).
P0127	30.0	▲	Speed = ▲ (DI3 = Closed and DI4 = Closed).

Note: ▲ Speed setting depends on application.

## PROGRAMMING

### CFW500 Keypad



- Menu/Enter button:**
  - Enter programming mode.
  - Use to Select/Save.
- Run button:**
  - Run in local mode.
- Stop button:**
  - Stop in local mode.
  - Reset.
- Up/Down buttons:**
  - Adjust speed in local mode.
  - Navigate through parameters.
- Back/ESC button:**
  - Return to monitoring mode.
  - Return to previous programming level.

### Oriented Start Up - STARTUP Group (Scalar - V/f Mode)

Prog	DEF	User	Description
P0202	0	0	Control Type V/f.
P0401	-	■	Motor Current (A).
P0402	1710	■	Motor Speed (rpm).
P0403	60	■	Motor Frequency (Hz).

Note: set P0202 = 5 during oriented start-up for improved speed control and higher torque capacity at low speed (especially < 5 Hz).  
■ Set as per motor nameplate data.

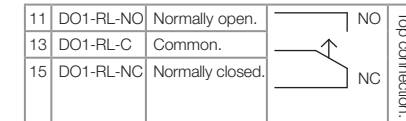
### Motor Overload Settings - MOTOR Group

Prog	User	Description
P0156	1.1 x P0401	Overload Current at 100% Speed.
P0157	1.0 x P0401	Overload Current at 50% Speed.
P0158	0.8 x P0401	Overload Current at 5% Speed.

### Basic Application - BASIC Group

Prog	DEF	Description
P0100	10.0 s	Acceleration Time (s).
P0101	10.0 s	Deceleration Time (s).
P0133	3.0 Hz	Minimum Speed (Hz).
P0134	66.0 Hz (55.0) Hz	Maximum Speed (Hz).

### Relay Output



Prog	DEF	User	Description
P0275	13	11	Run.
		12	Ready.
		13	No Fault.
		14	With Fault.

Note: for more advance functions, please refer to the the programming manual.

### Changing Monitor Display Parameter

Prog	DEF	User	Description
P0205	2	1	Speed Reference (rpm).
P0206	1	2	Output Speed (rpm).
		3	Motor Current (A).
		5	Output Frequency (Hz).
		7	Output Voltage (V).
		9	Motor Torque (%).



Note: for more advance functions, please refer to the programming manual (chapter 5.3).

### Loading Factory Default Setting

Prog	DEF	User	Description
P0204	0	5	Load WEG 60 Hz.
		6	Load WEG 50 Hz.