# SiS Direct Starter Pump Start pro

## Direct starter for a 1 single phase-electric pump

sprinkler irrigation SYSTEMS LTD.
01384 - 423150


### Specification

| model | kW | Hp | Current |
|---|---|---|---|
| Pump Start Pro | 0,37-2,2 | 0,5 - 3 | 2-18A |

Please note that these 'quick start' notes are a summary of key points only, please read the manufactures manual for full information, features and guidelines.

***Key Features***

Remote Starting of single phase pumps using one of the following:

- 24V AC Signal from irrigation controller master/pump start terminal
- Rollerball Floatswitch (no voltage required)
- Pressure Switch (no voltage required)
- Low Voltage Probes (not included)

Adjustable overload up to 18 amps and 2.2kw (requires adjustment to suit pump)
Dry run protection via float switch terminals

***Options***

- Bluetooth module & App for setting up
- Large enclosure version
- 3 phase version
- Alarm audio / visual indicator

***Dry run Protection - Using Probes***

Probes can be used in one of several ways, most common application is to protect a borehole pump form dry running. In any event two probes will be required. To protect the pump from low water level in the borehole, position one probe at the lowest level and the second probe slightly higher at the low level protection level (this is the actual pump protection switch off level).

The common level probe is wired back to COM and the low level probe wired back to MAX.

System is then controlled by irrigation controller, float switch or pressure switch on G/P1

To set delay start when using probes use bottom left trimmer pot which has a white label surrounding it

***Fault Finding key***

STEADY green led mains power ON
FLASHING green led failure or incorrect phase sequence
Green led OFF device not powered

STEADY red led motor temp overload alarm with man reset
FLASHING red led motor temp overload alarm with auto reset

STEADY green led electric pump operating
QUICK FLASHING green led (1 sec) min current control enabled
Green led OFF pump on standby

AUT button auto mode
AUT button for alarm reset (when pressed for 2 seconds
STEADY green led automatic mode active
SLOW FLASHING green led motor current cal mode (Min/Max)
Green led OFF auto mode disabled

STEADY red led motor thermal cut-out trip
SLOW Flashing red led minimum current alarm
QUICK FLASHING red led (1 sec) min current control disabled

0 button motor operation stop or standby

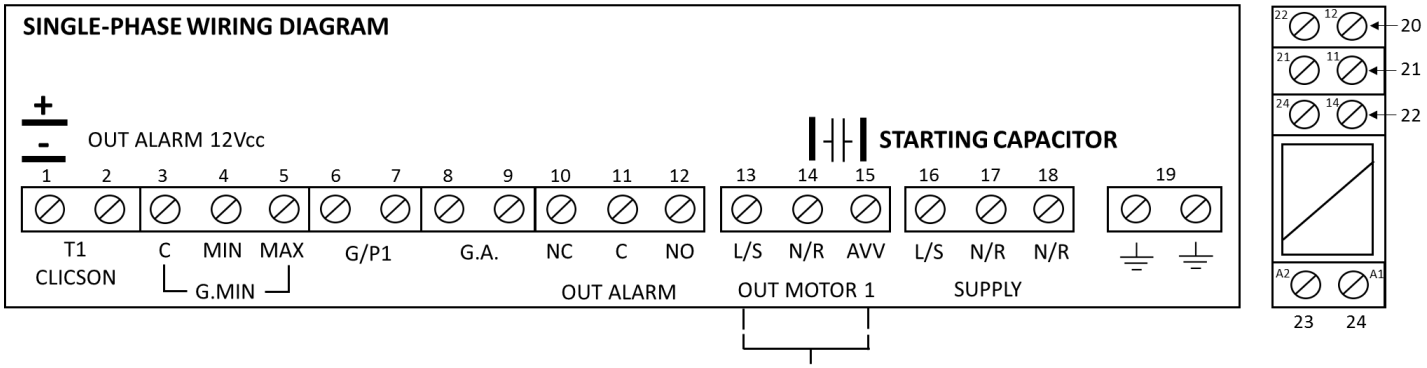
STEADY red led level alarm from sensor input
FLASHING red led alarm from GA input

MAN button manual mode

# SiS Direct Starter Pump Start pro

## Direct starter for a 1 single phase-electric pump

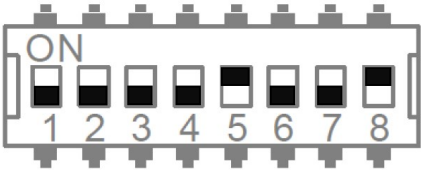
sprinkler irrigation SYSTEMS LTD.
01384 - 423150




**MOTOR OUTPUT**

L/S – **BLACK**
N/R - **GREY**
AVV - **BROWN**

**DEFAULT DIP SWITCH SETTINGS**




***Basic guide to connections***

1 Leave as found
2 Leave as found

3 COM Used for probes only (or leave as found)
4 Used only for 3 probe operation
5 MAX Used for probes only (or leave as found)
*If additional float or pressure switch used connect across 3 & 5 (COM & MAX)*
*If 2 probes used connect across 3 & 5 (COM & MAX) Set timer for re-start - MIN time default*

6 Connection from additional Pressure Switch or Floatswitch (or leave as found)
7 Connection from additional Pressure Switch or Floatswitch (or leave as found)
**NB.** IF **NO** IRRIGATION CONTROLLER CONNECTED:
Remove connections at 6 & 7 and use these terminals for the float or pressure switch. All other terminal instructions remain the same. This will also mean terminals 23 & 24 are no longer working.

8 Alarm float or switch (volt free)
9 Alarm float or switch (volt free)
10 NC Alarm Contact (volt free)
11 COM Alarm Contact (volt free)
12 NO Alarm Contact (volt free)

13 Live from pump (for borehole pumps see key on connection drawing) L/S BLACK
14 Neutral from pump (for borehole pumps see key on connection drawing) N/R GREY
15 AVV Start Winding (if capacitor not in pump – leave empty if 2 wire system) AVV BROWN
*Capacitor terminals located above these terminals*

16 LIVE from Main Supply Input
17 NEUTRAL from Main Supply Input
18 Not used or not present
19 EARTH Pump & SUPPLY Input

20 Leave as found
21 Leave as found
22 Leave as found

23 Connection from Common on Irrigation controller (24VAC)
24 Connection from Master/Pump start terminal on Irrigation controller (24VAC)
25 Connection for pressure switch of floatswitch (zero voltage). Otherwise - leave as found.

CURRENT AND DELAY SETTINGS - REFER TO MAIN INSTRUCTIONS - SECTION 8