



**INSTANT MATCH<sup>®</sup>**  
*premium*

## SDS233T Instant Match Transformer



## QUICK CONNECT GUIDE

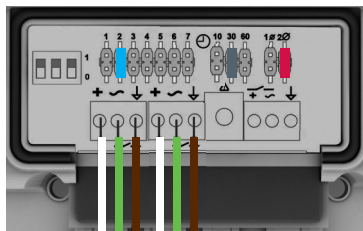
WITH  
**Active Link**

# Whale Instant Match® Transformer Flow Sensor Connections

External flow sensors should be used for mixer showers. An external flow sensor may also be used for electric showers which are not hardwire compatible. Compatible flow sensors and their connections to the transformer are listed below.

## Sika® Sensor Connection

### Whale® Transformer Settings



Blue Jumper - Sensor Position 2  
Grey Jumper - Over run 30 Seconds  
Red Jumper - Pipe inlet 22mm



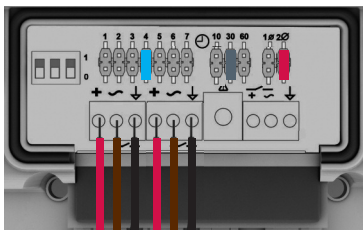
### Sika® Sensor

Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

## Gems® Sensor Connection

There are two versions of Gems® flow sensor:  
1000 pulses per litre (ppl) and 2200 ppl.  
Blue jumper position 3 = 1000 ppl  
Blue jumper position 4 = 2200 ppl (shown below)  
Blue jumper position 4 = 2200 ppl (shown below)

### Whale® Transformer Settings



Blue Jumper - Sensor Position 4  
Grey Jumper - Over run 30 Seconds  
Red Jumper - Pipe inlet 22mm



### Gems® Sensor

Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

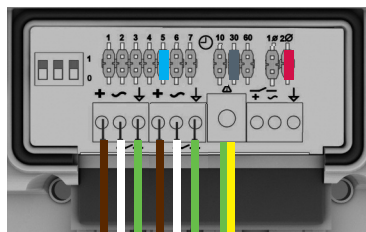
# Whale Instant Match® Transformer Flow Sensor Connections Cont'd



## Grundfos® (Venturi) Connection

When connecting to the Grundfos® Venturi sensor it is important to connect an earth wire from the Venturi sensor to the signal earth connection on Whale® transformer (shown below).

Whale® Transformer Settings



Blue Jumper - Sensor Position 5  
Grey Jumper - Over run 30 Seconds  
Red Jumper - Pipe inlet 22mm



Venturi® sensor

Please ensure that water flow  
through the sensor is in the  
direction of the arrow on the sensor.

# Whale Instant Match® Transformer Flow Switch Connections

In a situation where a hardwired connection with the shower cannot be established, or a suitable flow sensor has not been fitted, the Whale SDS233T Instant Match transformer can be used with AK1568 flow switch(es) to activate the pump.

## Electric Shower Settings

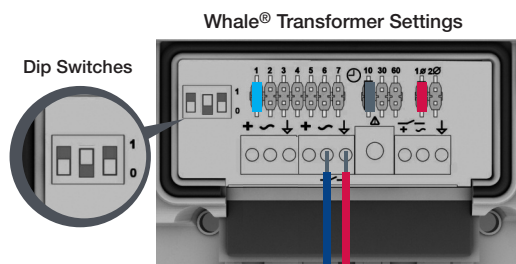
- Step 1: Turn Dip switch 2 to the 'ON' position.
- Step 2: Move red jumper to pipe size '1' for 15mm inlet pipe.
- Step 3: Move the blue jumper to increase or decrease the pump speed as required, using the table below as a guide.
- Step 4: Move the grey jumper to increase or decrease the pump overrun if necessary.

Jumper Position	Flow Rate (LPM)
1.	4.5 - As shown opposite
2.	5.0
3.	5.5
4.	6.0
5.	6.5
6.	7.0
7.	7.5

- Flow rates are nominal values only. This will vary depending on pipework.



Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.



Blue Jumper - Sensor Position 1  
Grey Jumper - Over run 10 Seconds  
Red Jumper - Pipe inlet 15mm

# Whale Instant Match® Transformer Flow Switch Connections Cont'd



## Mixer Shower Settings

- Step 1: Turn Dip switch 2 to the 'ON' position.
- Step 2: Move red jumper to pipe size '2' for 22mm inlet pipe.
- Step 3: Move the blue jumper to increase or decrease the pump speed as required, using the below table as a guide.
- Step 4: Move the grey jumper to increase or decrease the pump overrun if necessary. 30 is the recommended setting for use on mixer showers.

Note: An additional flow switch is available in the AK1570 Mixer Valve Conversion kit (sold separately).

Flow Switch x 2



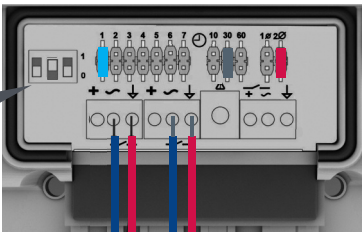
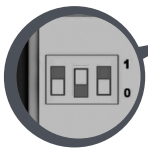
Please ensure that water flow through the sensor is in the direction of the arrow on the sensor.

Jumper Position	Flow Rate (LPM)
1.	7.5 - As shown opposite
2.	8.0
3.	8.5
4.	9.0
5.	9.5
6.	10.0
7.	11.0

• Flow rates are nominal values only.  
This will vary depending on pipework.

Whale® Transformer Settings

Dip Switches



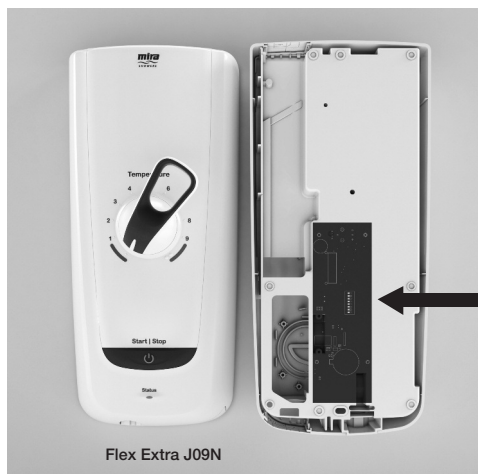
Blue Jumper - Sensor Position 1  
Grey Jumper - Over run 30 Seconds  
Red Jumper - Pipe inlet 22mm

# Whale Instant Match® Transformer Hardwired Connections

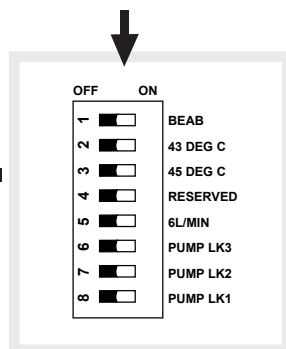
The hardwired connection allows the transformer and shower to communicate by means of a physical wired connection, eliminating the need for an external flow sensor.  
Compatible showers and their pump connections may be found below.

## Mira® Advance Flex Extra 1.1785.005 (J09N)

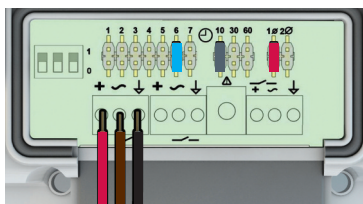
Wired Connections to the WHALE INSTANT MATCH® Transformer



Ensure all LK settings are set to 'OFF' for hardwired connection

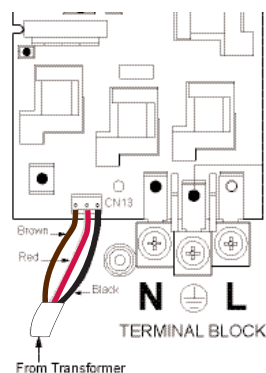


### Whale Transformer Settings



Blue Jumper - Sensor Position 6  
Grey Jumper - Over run 10 Seconds  
Red Jumper - Pipe inlet 15mm

### Connection to Mira® Advance Flex Extra J09N Shower



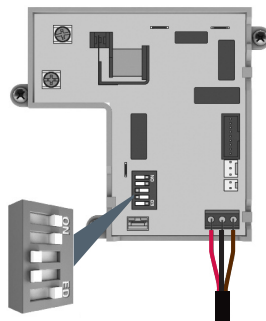
# Whale Instant Match® Transformer Hardwired Connections Cont'd

## Triton® Safeguard + Omnicare Design, Omnicare Style, T150Z+

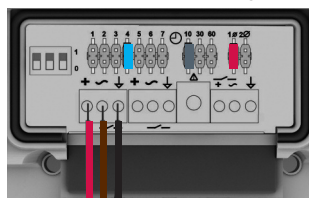
Wired Connections to  
the Whale Instant  
Match® Transformer



## Triton® Shower Connections and Settings



### Whale® Transformer Settings



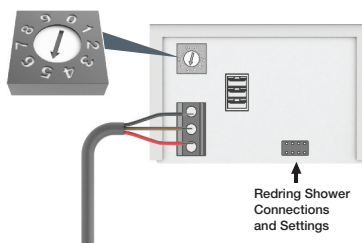
Blue Jumper - Sensor Position 4  
Grey Jumper - Over run 10 Seconds  
Red Jumper - Pipe inlet 15mm

## Redring® Selectronic WP (SEL85WP or SEL95WP)

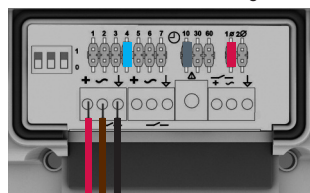
Wired Connections to the Whale  
Instant Match® Transformer



## Redring® Shower Connections and Settings



### Whale® Transformer Settings



Blue Jumper - Sensor Position 4  
Grey Jumper - Over run 10 Seconds  
Red Jumper - Pipe inlet 15mm



0345 9090 912



[drainagesupport@whalepumps.com](mailto:drainagesupport@whalepumps.com)



[www.whalepumps.com](http://www.whalepumps.com)



@Whalecare



**Whale, 2 Enterprise Road,  
Bangor, Co. Down,  
BT19 7TA, N.Ireland**

Ref. 182.603\_v2\_0619

©Copyright Whale 2019 - All rights reserved. Reproduction in whole or in part without permission is prohibited. WHALE® and WHALE INSTANT MATCH® are registered trademarks of Munster Simms Engineering Limited, Bangor, Northern Ireland trading as Whale. Whale's policy is one of continuous improvement and we reserve the right to change specifications without prior notice. Illustrations are for guidance purposes only. Neither the accuracy nor completeness of the information contained in this or any product literature is guaranteed by the Company and may be subject to change at its sole discretion.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Munster Simms Engineering Ltd (trading as Whale) is under licence. Other trademarks and trade names are those of their respective owners.

MIRA® is a registered trade mark of Kohler Mira Limited.

TRITON® is a registered trade mark of Triton Showers a division of Norcros Group (Holdings).

REDRING® is a registered trade mark of Redring Xpelair Group Limited.

SIKA® is a registered trade mark of Dr. Siebert & Kuhn GmbH & Co. KG

GEMS® is a registered trademark of Gems Sensors & Controls.

GRUNDFOS® is a registered trademark owned by Grundfos Management A/S or Grundfos A/S, Denmark.