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# Re-wiring engine panels

## *Type 2700 to DCU 305 R3 (LT)*

### Introduction

It is possible to re-wire from an existing installation that uses the Type 2700 panel, into a new DCU 305 R3 (LT) panel.

This document outlines the necessary steps for a succesful transfer.

It should however not be seen a complete guide. Careful consideration should be taken with all wiring changes and all new sensor configurations.

### Sensor wiring changes

The three right-most columns advises wiring and configuration in the DCU 305 R3 (LT) panel.

The figure in the parenthesis ( ) advices the 0V wire terminal reference.

	Connections Type 2700	Connections DCU 305 R3	Run only 15s delay	NO/NC
<b>Auto Stop Channels</b>				
Oil Press.	10 (2)	7 (29)	x	NO
Water Flow	12 (2)	8 (29)	x	NO
Water Temp.	13 (2)	9 (29)		NO
<b>Alarm Channels</b>				
Oil Temp.	27 (22)	12 (29)	x	NC
Water Temp.	28 (22)	13 (29)		NC
Oil Press. <sup>1</sup>	29 (22)	14 (29)	x	NC
Fuel Leakage	30 (22)	15 (29)		NC
Exhaust Temp.	31 (22)	16 (29)		NC
Water Level	32 (22)	17 (29)		NC
Sea Water press.	33 (22)	18 (29)	x	NC

<sup>1</sup> Also select the **Additional RUN Detection** option in Rudolf R3 for this channel. The oil pressure alarm switch will then - together with the magnetic pickup - indicate a running engine.

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## Other wiring changes

Terminal pins 4 (-) and 5 (+) on the 2700 are for the start relay:

- Positive polarity of the start relay connects to terminal 41 and negative polarity is connected directly to negative in the cabinet.

Terminal pins 6 (-) and 1 (+) on the 2700 are for the stop relay:

- Positive polarity of the start relay connects to terminal 42 and negative polarity is connected directly to negative in the cabinet.

Terminal pins 7 (-) and 1 (+) on the 2700 are for the shutdown relay:

- Positive polarity of the shutdown relay connects to terminal 44 and negative polarity is connected directly to negative in the cabinet.

Terminal pins 18 (+) and 19 (-) on the 2700 are for the run relay:

- Positive polarity of the run relay connects to terminal 43 and negative polarity is connected directly to negative in the cabinet.

Alarm relay on the 2700 are located on terminals 34, 35 and 36:

- RK-66 uses terminals 45, 46 and 47.

Terminals 20 and 21 on the 2700:

- DCU 305 R3 (LT) does not use this connection.

Terminals 37 and 38 on the 2700:

- DCU 305 R3 (LT) does not use this connection.

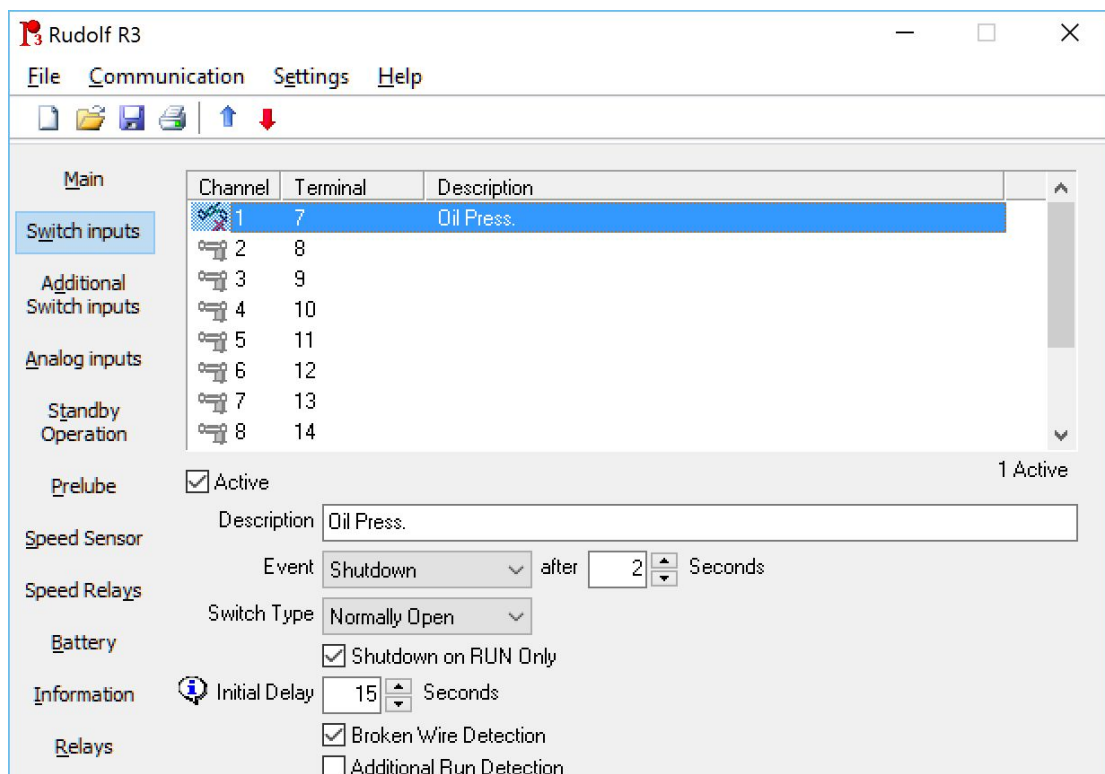
DCU 305 must have an RPM signal from a magnetic pick-up, preferably installed on the flywheel. The pick-up used on the 27001AP can be used with the DCU 305 R3 (LT).

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## Example

Below is an example configuration done in Rudolf R3 for the DCU 305, for the Autostop channel **Oil Press**.

The sensor wires shall be moved from terminals 10 (2) on the Type 2700 panel, to terminals 7 (29) on the DCU 305 R3 (LT) panel.



**Note!** The Broken Wire Detection option requires a 10k ohm resistor installed over the NO switch.