

## Manoswitch Dual-Resistor cable start kit

### Items covered by this data sheet

540360 Cable kit: Manosw 470-5K6 2m start kit  
 540361 Cable kit: Manosw 680-3K3 2m start kit  
 540362 Cable kit: Manosw 470-10K0 2m start kit  
 540363 Cable kit: Manosw 100-200 2m start kit  
 540364 Cable kit: Manosw 680-10K0 2m start kit  
 540365 Cable kit: Manosw 22K-2K7 2m start kit  
 540360-31 Cable kit: Manosw 470-5K6 2m IEC331

The first resistor(Ra: activate) is the low pressure resistor.

The second is the normal resistor(Rm: monitoring), when the pressure is OK.

The resistance values are marked on the terminator.

#### Note:

For the tem 540360 (terminator , 470-5K6) is it not possible to disassemble the connector and change the resistors.

Item 540360-31 is with IEC60331 cable.

### General

The manoswitch (combined pressure gauge and pressure switch) used by Fire Eater features a single pole change over switch making it possible to monitor for normal and low pressure as well as short circuitry and open circuit.

The manoswitches are designed to be connected in a daisy chain, where low pressure on one manoswitch will indicate low pressure on the monitoring panel.

The dual-resistor terminator (part of this kit) has to be placed on the last manoswitch in the daisy chain.

In the normal position (pressure above the set point) the resistance of the circuitry is high (200Ω/3K3Ω/5K6Ω/10KΩ), when pressure falls below the set point the resistance of the circuitry falls to low (100Ω/680Ω/470Ω/470Ω). Note: Ω = ohm.

### Related parts

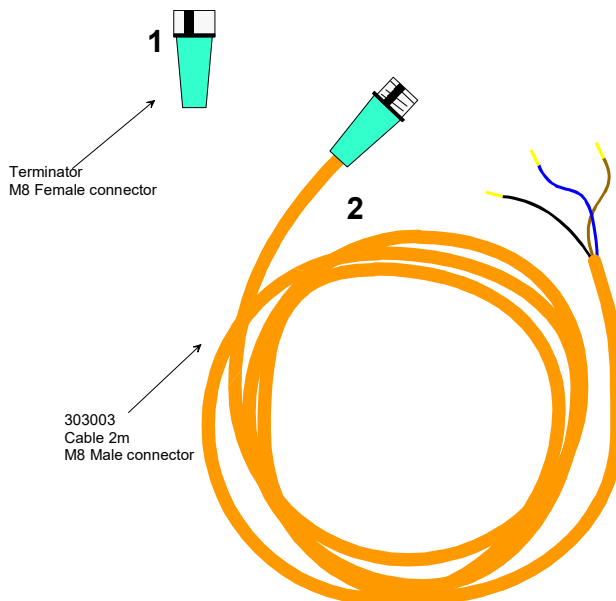
303003	Cable: M8-3 2.0m male plug in one end
303004	Cable: M8-3 0.6m plug in both ends
303005	Cable: M8-3 1.0m plug in both ends
303006	Cable: M8-3 2.0m plug in both ends
303012	Cable: M8-3 10.0m p plug in both ends
303007	M8 female connector with solder terminals

#### Materials:

Connector: TPU, CuZn gold plated,  
 CuZn nickel plated  
 Cable: PUR

#### Caution:

This start kit is not compatible with early style IV7 discharge valves.  
 Compatible gauges are marked "EN12094-10"  
 Switch limit: max: 0.1 Amp, 30 Vac/DC



#### Document:

54036x Manoswitch Dual resistor cable start kit

#### Category:

Electr Components

Id: MRP

Rev: 2024-10-15



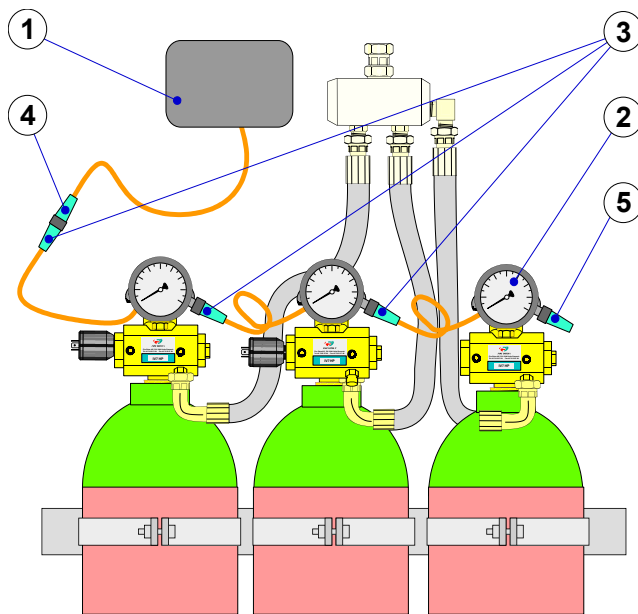
**FIRE EATER** %

Vølundsvej 17  
 DK- 3400 Hillerød  
 Tel +45 7022 2769  
 Fax +45 7023 2769

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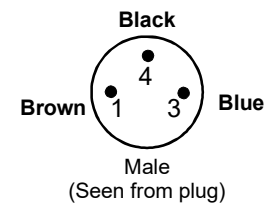
## Installation instructions

**Pos.**

- 1: Discharge box
- 2: Manoswitch w. M8 connector
- 3: Manoswitch cable
- 4: Cable 2.0m w. M8 connector
- 5: Terminator for manoswitch w. con

**Connection:**

The wire to connect is:

**1: Brown****4: Black****Installation:**

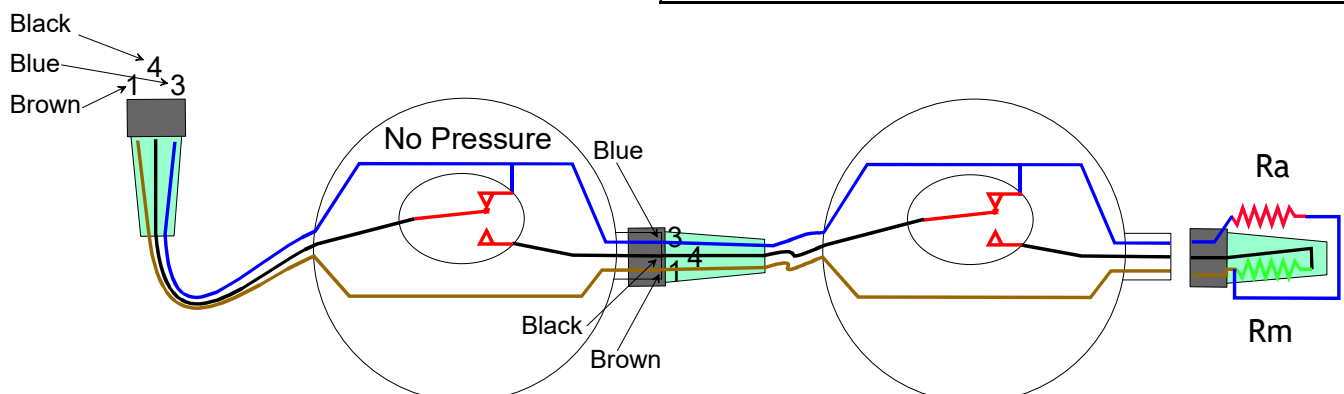
1. The 2 m cable (303003) is connected to the monitoring circuit, by connecting the brown and the black wire. The cable may be cut to the right length before installation.
2. The Terminator is fitted to the cable (303003) plug to verify correct function of the monitoring circuitry.
3. The cables between the manoswitches are connected. If the distance between cylinders is more than 400 mm it is necessary to use cable (303004-303006).

**Note:**

Care must be shown not to damage the connector in the manoswitch

**At service**

Always disconnect the terminator (303002/303008) to verify the pressure monitoring circuitry.  
If a pressure drop fault is indicated, move the terminator to verify which cylinder needs pressurisation.

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Vølundsvej 17  
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Tel +45 7022 2769  
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