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To calculate the current I in the circuit. Installation in series

$$U_0 = I * (R_i + R_L)$$

* U_0 is the total voltage (v) =9v

*I is the current intensity (A)=

* R_i is the resistance (ohms)= 0.5Ω

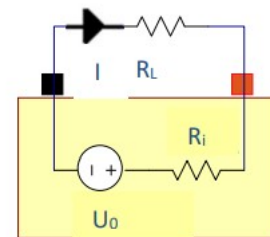
* R_L is the resistance (ohms) = 4Ω

$$I = \frac{U_0}{R_i + R_L}$$

$$I = \frac{9v}{0.5\Omega + 4\Omega}$$

$$I = \frac{9V}{4.5\Omega}$$

$$I = 1\text{ A}$$



Figur 2