

Hall Sensor

Motor built-in encoder that gives digital pulses in accordance with the rpm of the motor. Used for positioning or servo controlling of the REAC actuator.

Technical specification

Configurations

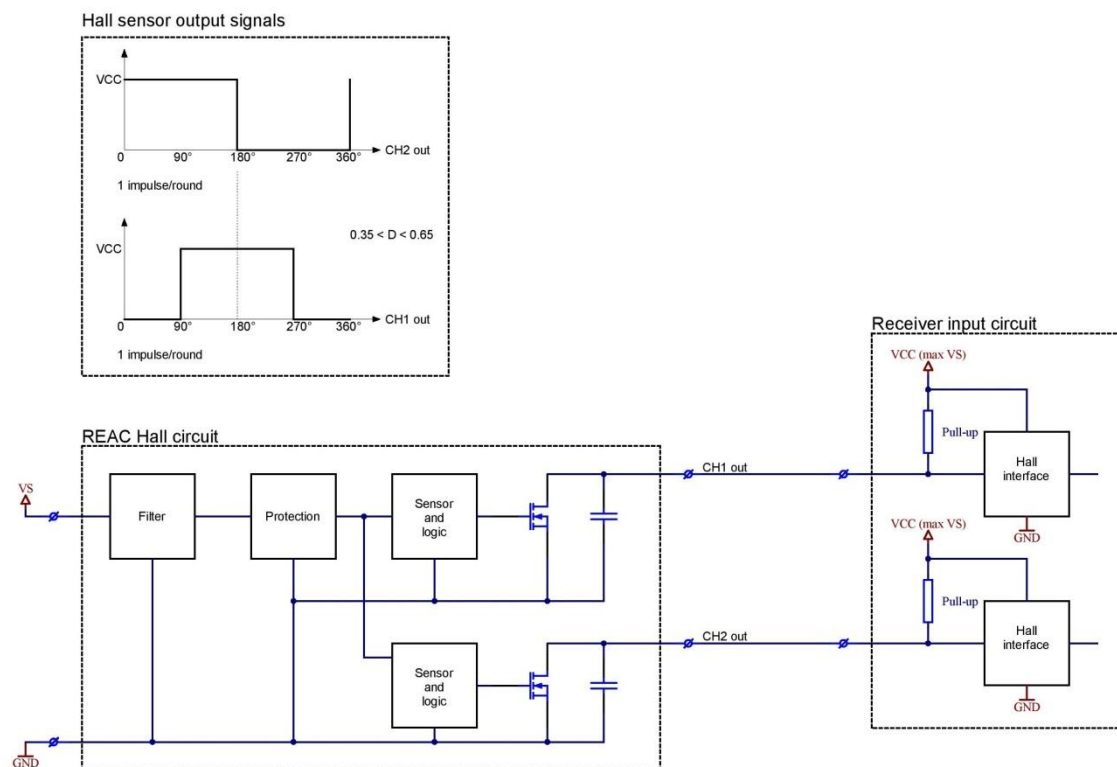
Available for RE1000, RE1001, RE1004, RE2000, RE25, RE3000, RE3004, RE3005, RE35, RE5000, RE5001, RE5003, RE60, RE6001, RE6003

Electrical characteristics

Supply voltage	3,8 - 24VDC
Supply current	Max 10mA
Output current (sink)	Max 50mA
Output saturation voltage	Typical 0,25VDC
Duty cycle (output high)	35 – 65%

Open collector/drain output circuit, pull-up resistor required

Principle



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Resolution

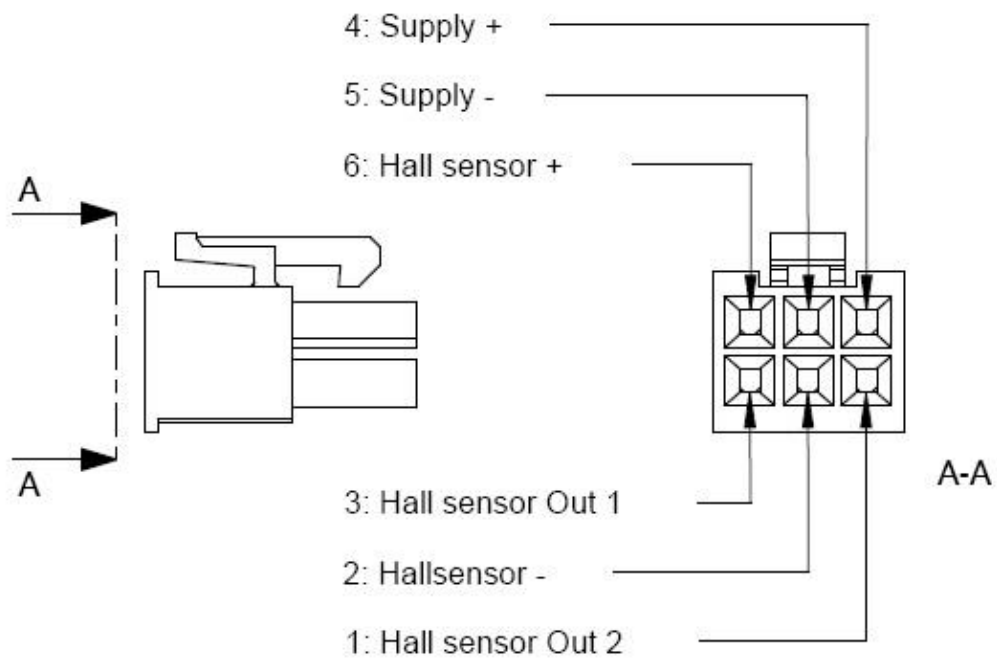
REAC standard actuators. Resolution in millimeter stroke per puls.

Actuator model	Actuator pitch 2mm	Actuator pitch 2,5mm	Actuator pitch 3mm	Actuator pitch 4mm	Actuator pitch 6mm	Actuator pitch 8mm	Actuator pitch 9mm
RE1000 standard	0,0741	x	0,1111	x	x	x	x
RE1000 fast	0,1042	x	0,1563	x	x	x	x
RE1000 strong	0,0392	x	0,0588	x	x	x	x
RE1001 standard	0,0741	0,0926	0,1111	0,1480	0,2220	x	x
RE1001 fast	0,1429	0,1786	0,2143	0,2857	0,4286	x	x
RE3000 standard	x	x	x	x	x	x	x
RE3000 fast	x	0,0424	0,0508	0,0678	0,1017	x	x
RE3001 strong	x	0,0403	0,0484	0,0645	0,0968	x	x
RE3001 fast	x	0,0424	0,0508	0,0678	0,1017	x	x
RE3004 strong	x	0,0403	0,0484	0,0645	0,0968	x	x
RE3004 fast	x	0,0424	0,0508	0,0678	0,1017	x	x
RE5000 standard	x	x	0,0750	0,1000	0,1500	x	x
RE5000 fast	x	x	0,0750	0,1000	0,1500	x	x
RE5001 standard	x	x	0,0750	0,1000	0,1500	x	x
RE5001 fast	x	x	0,0750	0,1000	0,1500	x	x
RE6001 standard	x	x	0,0750	0,1000	0,1500	x	x
RE6001 fast	x	x	0,0750	0,1000	0,1500	x	x
RE6003 standard	x	x	0,0750	0,1000	0,1500	x	x
RE6003 fast	x	x	0,0750	0,1000	0,1500	x	x
RE25 standard	x	x	0,0484	0,0645	0,0968	0,1290	x
RE25 strong	x	x	0,1154	0,1538	0,2308	x	x
RE35 standard	x	x	0,2927	0,3902	0,5854	x	0,8780
RE35 strong	x	x	0,1154	0,1538	0,2308	x	0,3462
RE60	x	x	0,0484	x	x	x	x

Connection

Contact	Molex Mini fit 5557-06R
Cable hall	AWG26
Cable motor	AWG20
Cable length	88 mm

Note, other specs on customer request



Overall dimensions

Actuator dimensions are not affected by hall sensor option.

Note. Hall sensor option is available for actuators outside standard stroke and pitch, please contact REAC for consultation.

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