

Customer Application E-Shifter Requirements Sheet

The purpose of this document is to outline the overall customer mechanical and sensor requirements for the given application project. Please provide as much detail as possible.

Today's Date _____	Company Name _____
Customer Contact _____	Customer Phone _____
Customer Email _____	Customer Fax _____
Project Name _____	
Vehicle Type _____	Vehicle Model _____
Control Application _____	Other type _____

Briefly describe the Application below

Sensor requirements

Output configuration?

1. Single output
 2. Dual output
 3. Single output with switch / more switches required?
 4. PWM signal
-
- Flying leads
- Integrated connector (6 way Metri Pack 150 Series)

1. Single output

a) Diagram – voltage output curve versus lever angle +/- tolerances: (see Appendix)

b) min. voltage +/- tolerances: _____

c) max. voltage +/- tolerances: _____

d) Operating (reference) voltage +/- tolerances: _____

- e) Maximum Input current available (sourcing ref. voltage): _____
- f) Maximum Output current required: _____
- g) Load resistance: _____
- h) Load capacitance: _____
- i) Simplified load circuitry scheme: (see Appendix) _____

2. Dual output

- a) Diagram – voltage output curve versus lever angle +/- tolerances: (see Appendix)
- b) min. voltage +/- tolerances: _____
- c) max. voltage +/- tolerances: _____
- d) Output 1 and output 2 correlation and +/- tolerances: _____
- e) Operating (reference) voltage +/- tolerances: _____
- f) Maximum Input current available (sourcing ref. voltage): _____
- g) Maximum Output current required: _____
- h) Load resistance: _____
- i) Load capacitance: _____
- j) Simplified load circuitry scheme: (see Appendix) _____

3. Switch (more switches?)

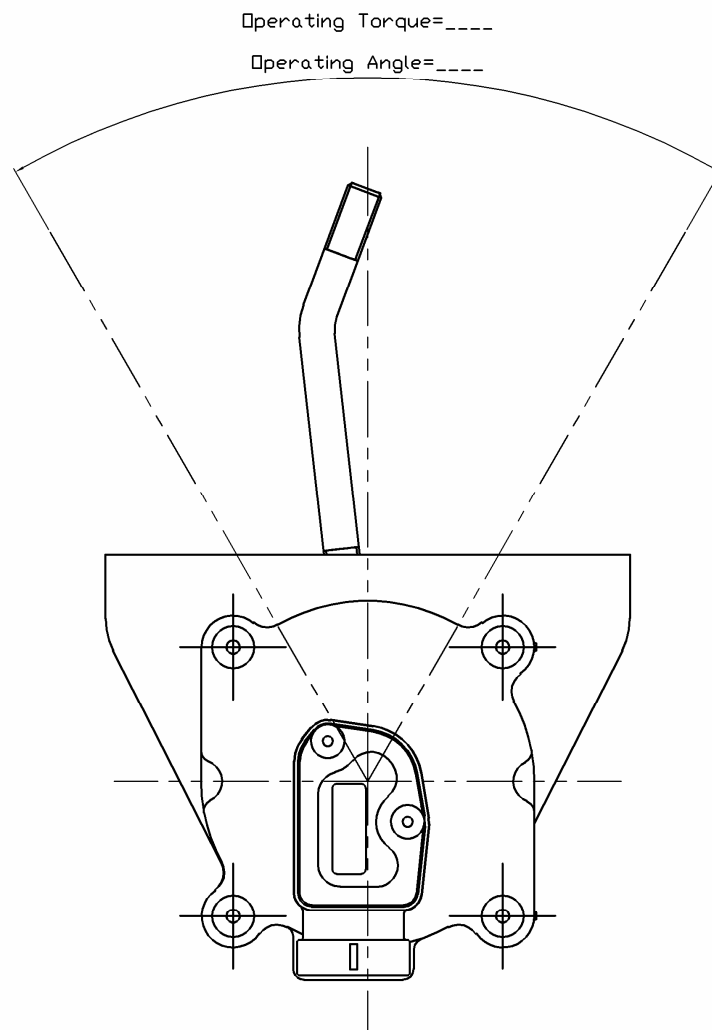
- a) Diagram – voltage outputs curve versus lever angle +/- tolerances (switch position + tolerances): see Appendix _____
- b) Switch configuration (normally open, normally closed): _____
- c) Maximum continuous voltage on switch when closed: _____
- d) Maximum Input current flowing through switch when open: _____
- e) Maximum permissible switch resistance when open: _____
- f) Voltage level threshold for switch: _____
- g) Simplified load circuitry scheme: (see Appendix)

4. PWM output (dual output?)

- a) Diagram – duty cycle output curve versus lever angle +/- tolerances: _____
- b) min. duty cycle +/- tolerances: _____
- c) max. duty cycle +/- tolerances: _____
- d) Operating (reference) voltage +/- tolerances: _____
- e) Maximum Input current available (sourcing ref. voltage): _____
- f) PWM frequency +/- tolerances: _____
- g) Output configuration (open collector?): _____
- h) Maximum output current draw: _____
- i) Load resistance: _____
- j) Load capacitance: _____
- k) Simplified load circuitry scheme: (see Appendix) _____

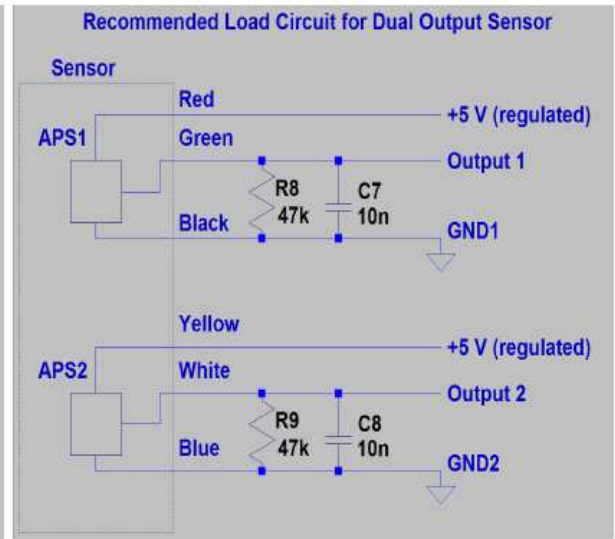
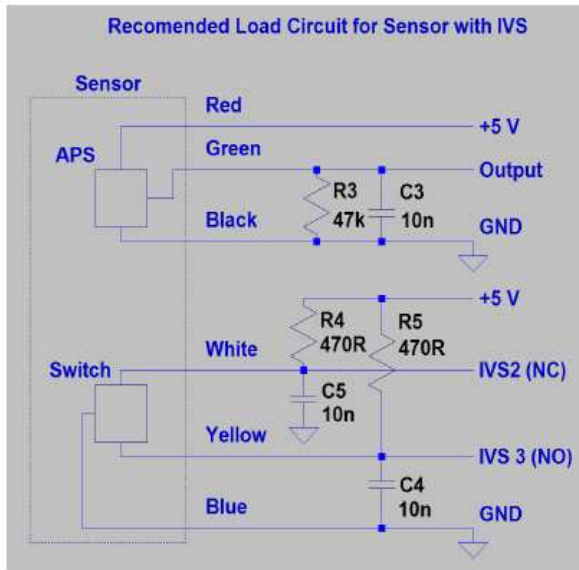
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APPENDIX:

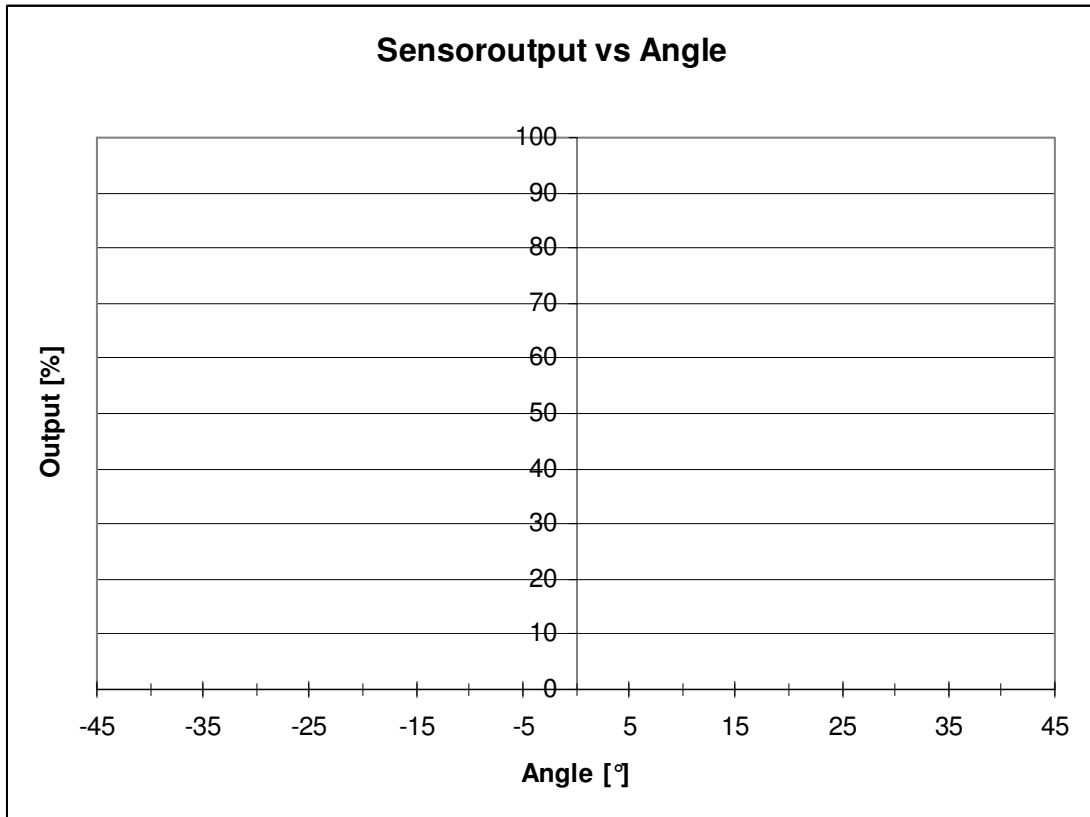


Please sketch requested detent positions

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Please sketch requested output curve over lever angle

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Remarks/Notes:

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