

Inputs		Outputs		Testing		
Desired Position	Current Position	Desired Actuator Motion	Desired Final Position	Actual Actuator Motion	Actual Final Position	Pass?
FORWARDS	Overextended	RETRACT	In forwards	Retract	In forwards	TRUE
	In forwards	NONE	In forwards	None	In forwards	TRUE
	Forwards engaging zone	EXTEND	In forwards	Extend	In forwards	TRUE
	Forwards detection zone	EXTEND	In forwards	Extend	In forwards	TRUE
	Dead zone	EXTEND	In forwards	Extend	In forwards	TRUE
	Reverse detection zone	EXTEND	In forwards	Extend	In forwards	TRUE
	Reverse engaging zone	EXTEND	In forwards	Extend	In forwards	TRUE
	In reverse	EXTEND	In forwards	Extend	In forwards	TRUE
	Overretracted	EXTEND	In forwards	Extend	In forwards	TRUE
NEUTRAL	Overextended	RETRACT	Forwards detection zone	Retract	Forwards detection zone	TRUE
	In forwards	RETRACT	Forwards detection zone	Retract	Forwards detection zone	TRUE
	Forwards engaging zone	RETRACT	Forwards detection zone	Retract	Forwards detection zone	TRUE
	Forwards detection zone	NONE	Forwards detection zone	None	Forwards detection zone	TRUE
	Dead zone	NONE	Forwards detection zone	None	Forwards detection zone	TRUE
	Reverse detection zone	NONE	Reverse detection zone	None	Reverse detection zone	TRUE
	Reverse engaging zone	EXTEND	Reverse detection zone	Extend	Reverse detection zone	TRUE
	In reverse	EXTEND	Reverse detection zone	Extend	Reverse detection zone	TRUE
	Overretracted	EXTEND	Reverse detection zone	Extend	Reverse detection zone	TRUE
REVERSE	Overextended	RETRACT	In reverse	Retract	In reverse	TRUE
	In forwards	RETRACT	In reverse	Retract	In reverse	TRUE
	Forwards engaging zone	RETRACT	In reverse	Retract	In reverse	TRUE
	Forwards detection zone	RETRACT	In reverse	Retract	In reverse	TRUE
	Dead zone	RETRACT	In reverse	Retract	In reverse	TRUE
	Reverse detection zone	RETRACT	In reverse	Retract	In reverse	TRUE
	Reverse engaging zone	RETRACT	In reverse	Retract	In reverse	TRUE
	In reverse	NONE	In reverse	None	In reverse	TRUE
	Overretracted	EXTEND	In reverse	Extend	In reverse	TRUE
NULL	Overextended	NONE	Overextended	None	Overextended	TRUE
	In forwards	NONE	In forwards	None	In forwards	TRUE
	Forwards engaging zone	NONE	Forwards engaging zone	None	Forwards engaging zone	TRUE
	Forwards detection zone	NONE	Forwards detection zone	None	Forwards detection zone	TRUE
	Dead zone	NONE	Dead zone	None	Dead zone	TRUE
	Reverse detection zone	NONE	Reverse detection zone	None	Reverse detection zone	TRUE
	Reverse engaging zone	NONE	Reverse engaging zone	None	Reverse engaging zone	TRUE
	In reverse	NONE	In reverse	None	In reverse	TRUE
	Overretracted	NONE	Overretracted	None	Overretracted	TRUE