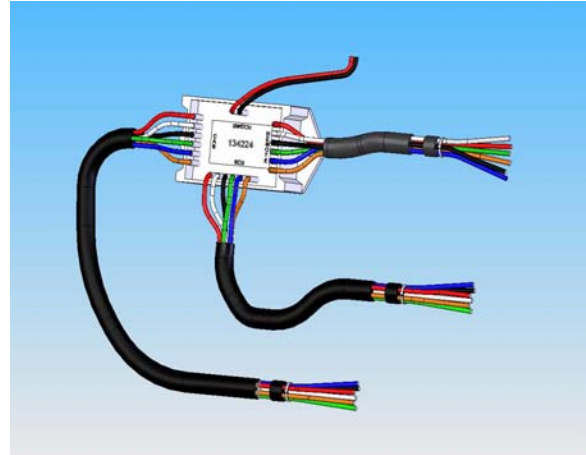


1.0 Features:

- Switch between cab and remote throttles
- 12 V operation
- -40°C to + 85°C Operation
- Switches up to six signals
- IP66 Sealed


2.0 Applications:

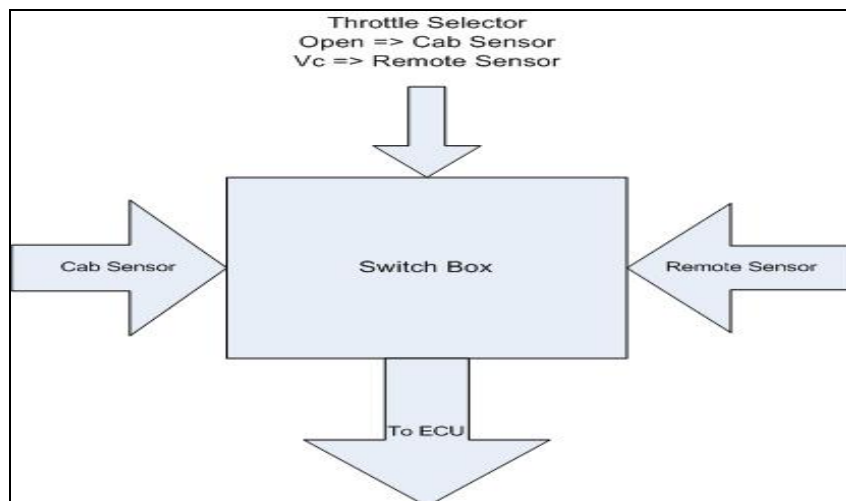
- Select throttle control from either cab or remote control location.
- Compliant with SEE SECTION 8.0

Typical Signals Switched.

Color	Function	Color	Function
Blk	APS Signal	Org	Throttle Active
Wht	APS Ground	Blu	Idle Active
Red	APS Supply	Grn	IVS Common

Description:

The 12 Volt Remote Throttle Switch Module is used to select the throttle input that goes to an ECU. Typically, it is used to select either a cab throttle or a remote throttle.



4.0 Design Requirements

Electrical Specifications; Over -40°C to +85°C temperature range

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
V _{cmain}	Voltage to select main throttle		-	0	-	V
I _{cmain}	Current required to select main throttle		-	0	-	mA
V _{max fault}	Max fault voltage (continuous @ 20°C ambient)				18	
V _{cremote}	Voltage to select remote throttle (normal operation, SAE J1455)		9	14.2	16	V
I _{cremote}	Current required to select remote throttle (typical)		24	42	52	mA
I _{Signal}	Current through any signal contact		-	0.01	1	A
R	Resistance of any signal contact	Over temperature range. Includes wire.	-	110	130	mΩ
Wire AWG	Wire Size			18		AWG
Wire Type	Stranded					
Wire insulation	Polyethylene (CPL)	Meets J1128 GXL or TXL				

Mechanical Specifications;

Parameter	Conditions	Min.	Typ.	Max.	Units
Distance from main/remote switch to switch module	See Drawing	44	48	52	in.
Distance from main throttle to switch module	See Drawing	56	58	60	in.
Distance from remote throttle to switch module	See Drawing	56	58	60	in.
Distance from ECU to switch module	See Drawing	56	58	60	in.
Assembly Weight		--	.9	--	lbs.
Mounting	See figure 1				
Wire Identification	Color Coding				

Environmental Specifications;

Salt Spray:	Refer to Williams Spec WDS-010B
Humidity:	
Chemical Resistance:	
Vibration:	
Thermal Shock:	
Fire	FMVSS-302
Operating Temperature	-40 °C to 85 °C
Storage Temperature	-40 °C to 125 °C

6.0 Mechanical Dimensions and Characteristics (for reference only)

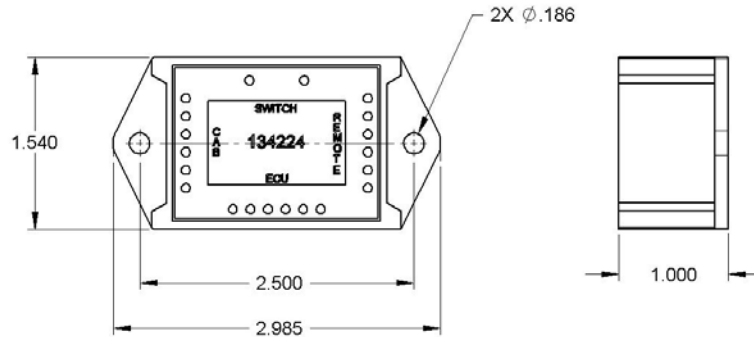


Figure 1

8.0 Applicable Government or Regulatory Standards; Customer Standards; Internal\External Process Specifications:

Switch complies with or in part to the following:

- Williams Controls DWG # 134224
- Williams Controls Specification # WDS-010B
- FMVSS-302

Revision History

Rev	Date	By	Changes/Comments
A	04/03/08	NJP	Updated and corrected wire colors ECN #41670