

**Overview:**

DSE will continue to provide a non-contact solution for the DW-12 ARB lever compatible with the updated split lever positioning defined by ICS Tech Bulletin IR15_14.00.

The Gill Blade mounting bracket has been redesigned to work with the new lever setup. The bracket maintains the best possible electrical functionality of the Gill sensor while retaining compatibility with the DSE lever triggers. The new bracket design relocates the Gill Blade sensors below the ARB lever assembly. The Gill sensors bolt directly into the tub via threaded inserts and the triggers bolt directly to the lever. A drilling fixture is provided.

Functionality:

The new setup will eliminate crosstalk between sensors. Filtering math is completely eliminated.

The sensors themselves contain a custom calibration and provide a continuous analog output to allow for future expansion of the ARB gates. The sensor accepts 5-30V DC excitation and provides a 0.4-4.5V analog output. When no target is detected the sensor output reverts to 0.062V.

**Hardware Specification:**

Composition: 6061-T6 Aluminum, Stainless Steel Hardware
 Lever Mounted Targets
 Finish: Black anodize, type III hardcoat
 Kit weight (per lever): 0.100 lb

Part Number And Ordering Information:

P/N: DSE-SN-AR-005	2 x Sensor Bracket Pair (1 required per car to update pre 2015 kits)	\$150
	- 2 x Lever Triggers	
	- Associated hardware	
P/N: DSE-SN-AR-006	Drilling Fixture (1 required per team)	\$75
P/N: DSE-SN-AR-004	DSE / GILL Blade Sensor Kit (1 required per car)	\$525
	- 2 x Lever Triggers	
	- 2 x Blade Sensors	
	- Associated hardware	
P/N: DSE-SN-AR-002	ARB Blade Sensor Only (spare or replacement)	\$185

Wiring Information:

<u>Function</u>	<u>FARB</u>	<u>RARB</u>
Analog Output	Yellow	Blue
Ground	Black	Black
Power (5-30VDC)	Red	Red
Serial TX (calibration only)	White	White
Serial RX (calibration only)	Green	Green

Sensor Environmental Information:

Protection Class: IP67
 Operational Temperature: -40C – 125C



Drilling Fixture