



# The SpeedSorter™ LIBS Optical Sensor.

HIGH SPEED IN-LINE ALUMINUM SORTING

- Sort speed up to 5 tons / hour contingent on sorting system capabilities
- Example Separations - wrought/cast, Aluminum/Magnesium, 5xxx/6xxx
- High purity, High yield results to maximize revenue
- Ensures purity for secondary Al production

Base Elements	Al, Mg, Cu, Zn
Alloying Elements	Al, Fe, Mg, Mn, Si, Pb, Cr, Ni, Cu, Zn (Sn in special configuration)
Laser	Class 4 IR, Class 3R for alignment
Spectrometer	High resolution. High throughput, thermally controlled, standard range 190-450nm
Working distance	250 +/- 5 mm, typical from front face of modules
Divert Signal Output	24V, 0.5A max (can be configured for other signals)
Communication	TCP / IP over ethernet
Communication Protocol	See "SpeedSorter Software Protocol Document"
Control Software	Client-side GUI, controls for setting recipes, viewing element ratios, number of pieces sensed / diverted, processed spectra, laser status, system temps, error and fault messages, saving data. Change multiple modules in Tabs, certain operations performed globally.
I/O (24VDC)	Divert, Laser ON, Remote Interlock, Sync IN, Fan ON
Power	24VDC 600W (Din rail mount power supply included)
Laser Safety	Manual E-stop, remote interlock, system status LEDs
Ventilation Requirements	150 CFM per module clean filtered air
Ambient Operating Conditions	0° - 40°C non-condensing 25%-85% RH
Storage Conditions	-10° - 65°C non-condensing 25%-85% RH
Weight/Dimensions	60lbs (27.2kg); 90cm x 12cm x 30cm (35cm with back handle)

**To learn more, email us at [appliedsystems@oceaninsight.com](mailto:appliedsystems@oceaninsight.com).**



Applied Systems

US +1 727-733-2447 • EUROPE +31 26-3190500 • ASIA +8621-6295-6600

[www.oceaninsight.com](http://www.oceaninsight.com)