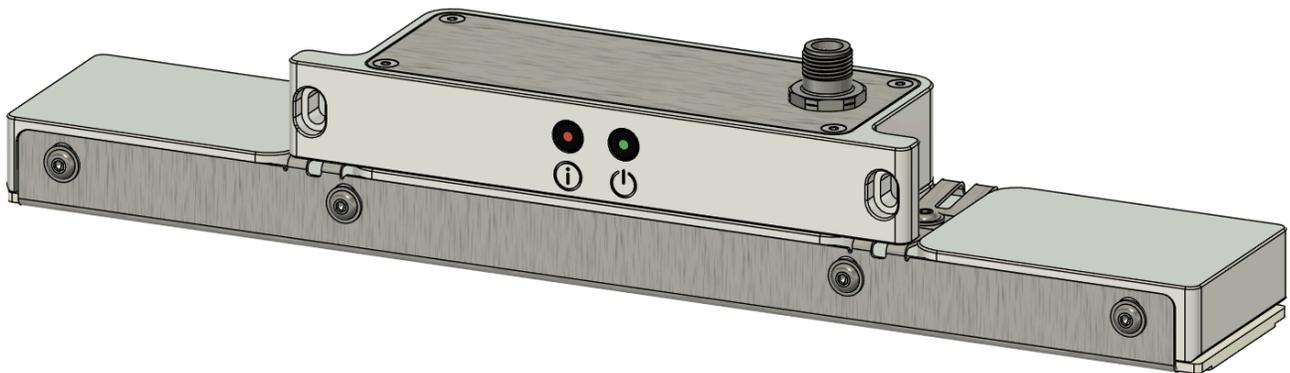


B19.300.1 Integrated Electrode

DATASHEET - V250603A

The B19.300.1 electrode is a 300mm x 60mm electrode for powder bed leveling and defect correction. It can correct powder bed defects approximately 2mm or smaller. The B19.300.1 electrode is designed to level 300mm or ~12" wide powder beds in a sweeping motion up to 350mm/s (or more, with reduced defect correction). This electrode has an integrated controller and thus does not require a separate controller to operate.



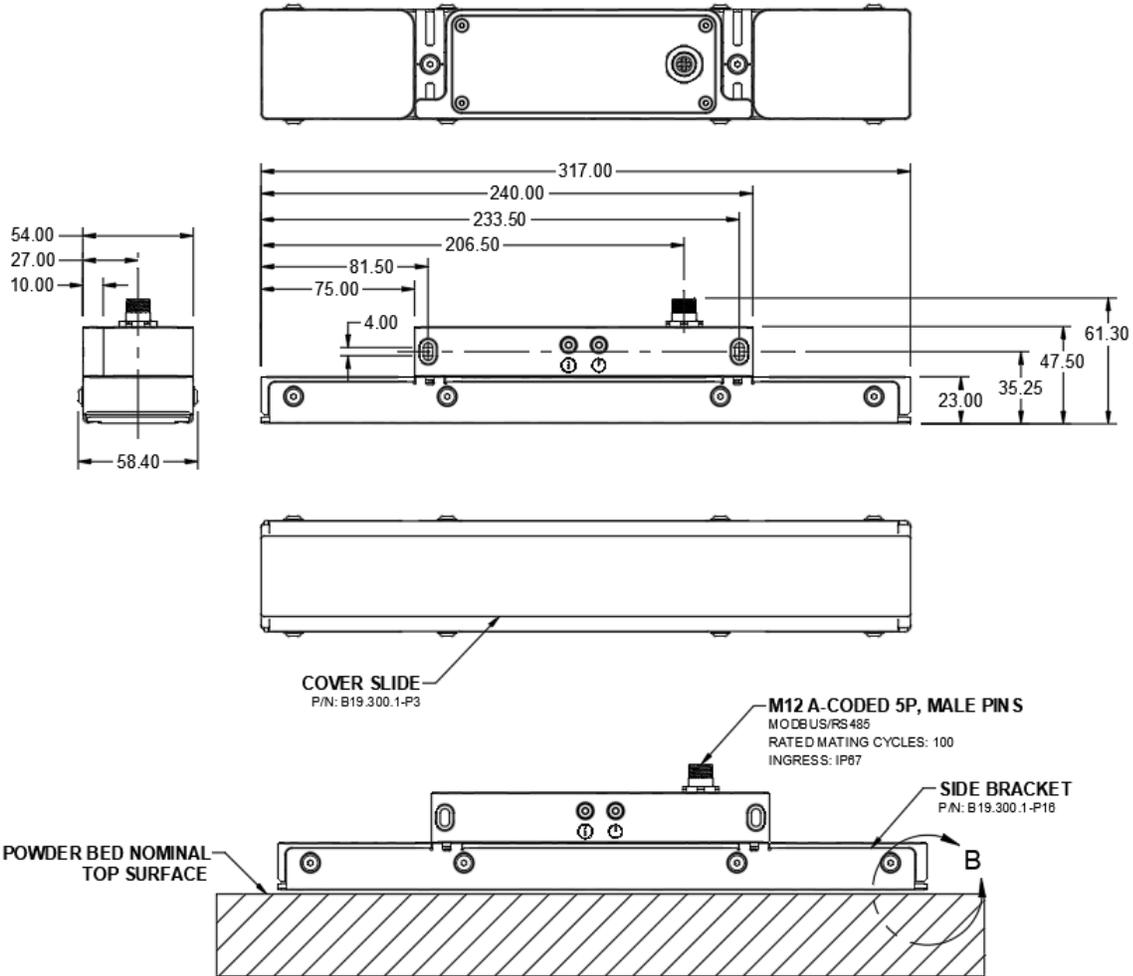
Specifications

| | |
|---|---|
| Maximum Recommended Recoating Speed | 350 mm/s |
| Electrode Overall Dimensions | 317mm x 58.4mm x 61.3mm |
| Compatible Gases | Argon, Nitrogen, CO ₂ , Helium gas blends |
| Disconnect Port | Standard M12, 5-pin, A-Coded |
| Mean Particle Size Range | 10 to 350 micron |
| Particle Material Volume Resistivity (Min) | 1x10 ³ ohm-meter (all metals, some ceramics) |
| Recommended Standoff Distance | 1-3mm |
| Coverslide Material | Delrin, PEI, PVDF, or application-specific |
| Frame Material | Anodized aluminum, 304 stainless |
| Interface Protocol | MODBUS RTU / RS485 |

Mechanical Drawing

300MM INTEGRATED ELECTRODE

B19.300.1



CONNECTOR PINOUT

| SIGNAL | PIN | COLOR (TYP) |
|-----------|-----|-------------|
| EARTH GND | 1 | BROWN |
| +24V | 2 | WHITE |
| SIG GND | 3 | BLUE |
| D+ | 4 | BLACK |
| D- | 5 | GREY |

