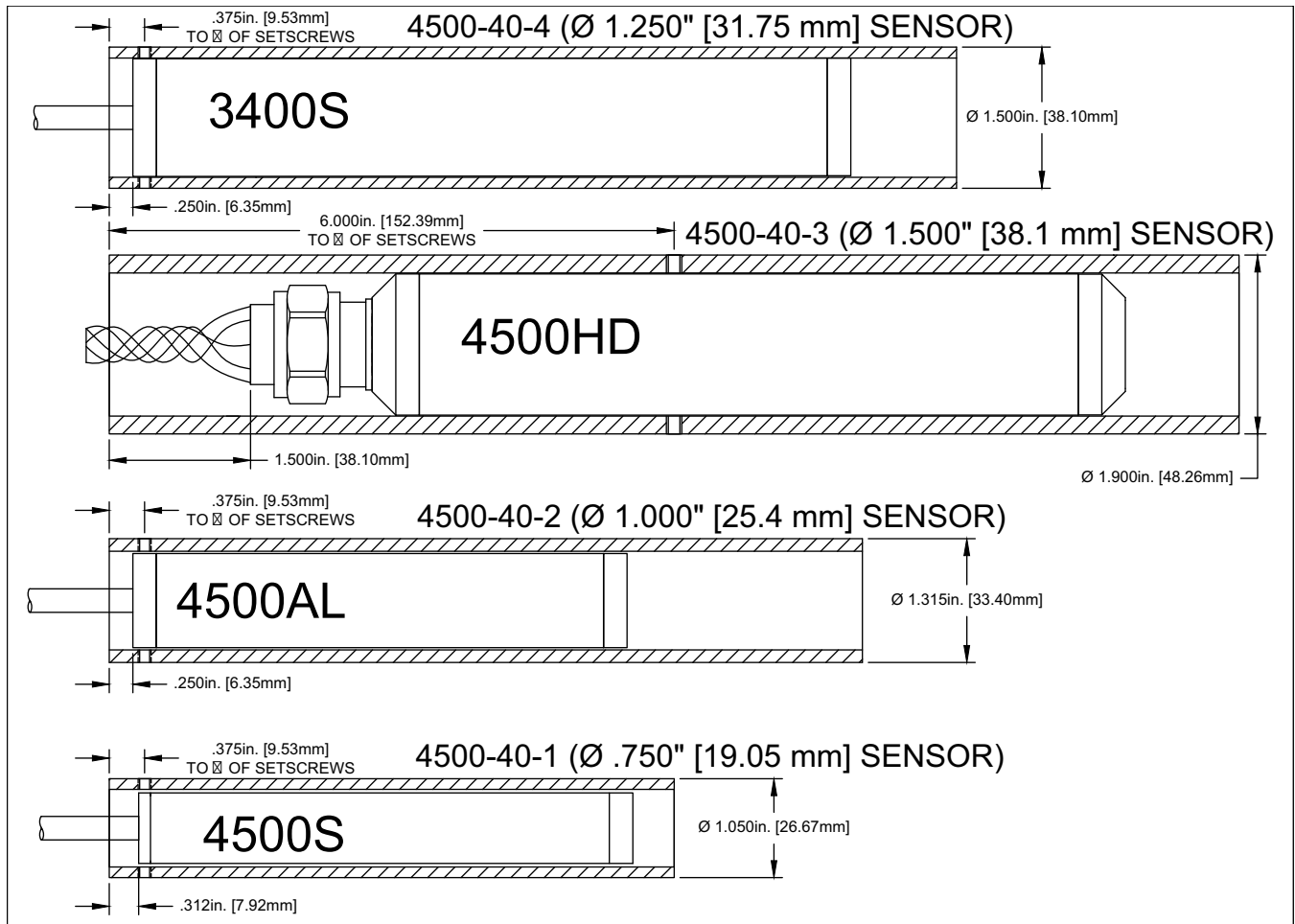


## Supplemental instructions for magnetic shields

The 4500-40-# series magnetic shields are made from thick-walled steel pipe and are attached to fully assembled sensors. These shields protect from transient magnetic fields that can interfere with signal acquisition.

The figure below shows the four main varieties of magnetic shields that Geokon offers, installed on example sensors of the corresponding diameter. In most cases, the magnetic shield can slide on from the tip of the sensor, but some sensors, like pressure cells, might have to be installed over the cable. The shields can also be installed on the sensors when manufactured.

There are two to four set screws in each magnetic shield that tighten into the housing of the corresponding sensor. The setscrews are driven into thicker parts of the housing to avoid damage to seals and to the housing where it is thin. The housing is usually thicker at the very top of the sensor. With a sensor like the 4500HD, the entire housing is strong enough to drive in setscrews without damage. The figure below shows the optimal distance for the shields location from the centerline (CL) of the setscrews and the top of the sensor. Contact Geokon if there is any concern about setscrew placement with your sensors.



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