

Title: Laser Target Ambiguity

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Abstract

The problem of target ambiguity for local position reference systems is described. We trace the history of local position reference sensors as they have sought to reduce the risk from target ambiguity, moving from early staring laser sensors to continuously rotating laser sensors. We take a look at how microwave position reference sensors deal with the issue. We then take a look at developments on the reflector side of the system, with increasing adoption of prism reflectors. We describe the principle of operation of the dichroic reflector. We report on recent results with the CyScan Absolute Signature system, and show how it will entirely remove the danger of laser target ambiguity.