

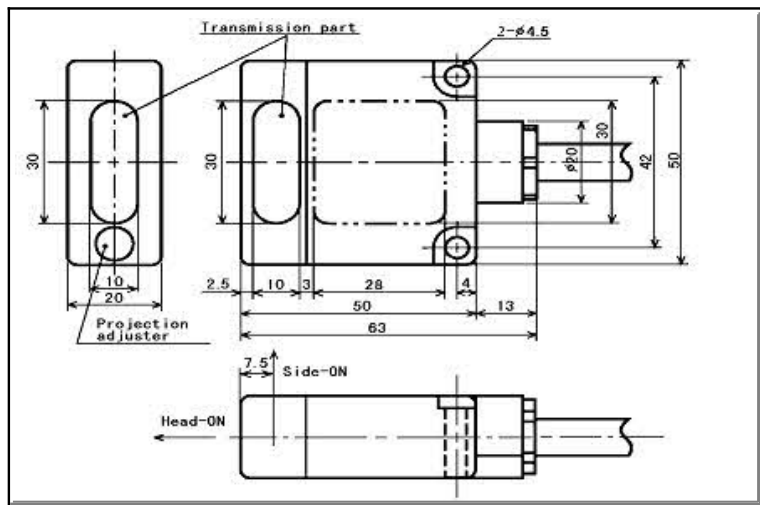
Optical PI/O Solutions for Semiconductor Factory Automation



OPTICAL PI/O SENSOR

The parallel input/output (PI/O) device provides the optical interface between semiconductor process equipment and automated material handling systems (AMHS). As more fabrication facilities implement factory automation processes, the requirement for an optical PI/O solution is present. The SEMI® E84 standard as outlined provides the scope for which the optical PI/O sensors must comply as it relates to the communications associated with material handoff operations. As a global leader in optical PIO solutions, Hokuyo provides key products with the DMS and DMG series.

DIMENSIONS



E84 PI/O Interface Units

DMS-HB1 version

8-bit optical transceiver that include DMS-HB1-V and DMS-HB1-Z versions.

Extends parallel I/O communications associated with material handoff operations between active and passive equipment.

Status Indicator LEDs for Input, Output, Go signals and Power.

DMG-HB1 version (with logging function)

8-bit optical transceiver that memorizes transmission and reception data between active and passive equipment.

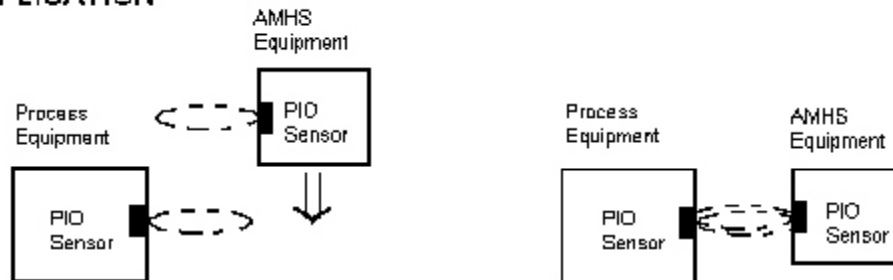
Fully compatible with all models of DM and DMS optical PI/O sensors.

Monitors the optical interlocking between an AMHS and loadport to ensure proper communication of the designated E84 signals.

Data is stored on DMG and read out through the use of a remote data transfer checker (BNC-HB1). The BNC-HB1 is a remote controller type device that extracts the data optically from the DMG sensor and transfers it to a PC through application software.

All models of DMS and DMG series are equipped with 2-meter, 5-meter or custom cable assembly lengths and 25-pin D-sub connector wired to SEMI® E84 pin assignments.

APPLICATION



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