



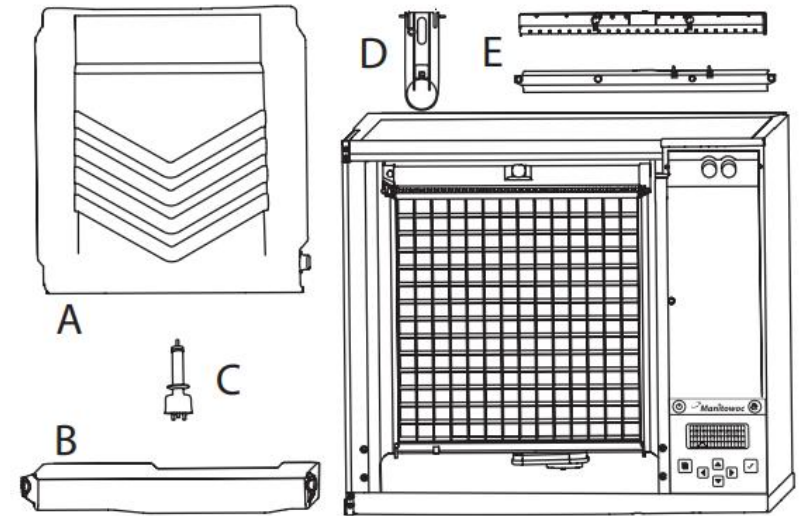
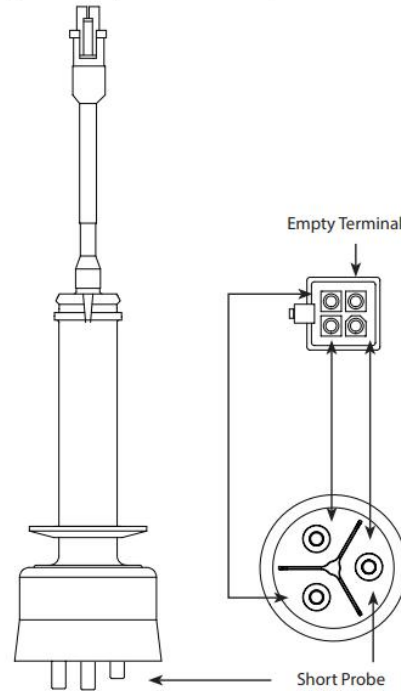
Manitowoc Ice Machine Sensor Kit

Sanqiaohui (China Foshan)

Water Level Probe (000016053) for Manitowoc Ice Machine



The SANQIAOHUI Water Level Probe (000016053) is a high-performance replacement sensor designed for Manitowoc commercial ice machines. It accurately detects water levels in the reservoir to ensure proper machine operation and prevent issues such as dry running or overflow.



US Patent: Sanqiaohui Sensor Switch



US12396587B2

(12) United States Patent Long

(10) Patent No.: **US 12,396,587 B2**
(45) Date of Patent: **Aug. 26, 2025**

- (54) **INTELLIGENT PRESSURE SOLENOID VALVE**
- (71) Applicants: **Sanqiaohui (Foshan) New Materials Co., Ltd.**, Guangdong (CN); **Foshan Gaopeng New Material Partnership (Limited Partnership)**, Guangdong (CN)
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- (73) Assignees: **Sanqiaohui (Foshan) New Materials Co., Ltd.**, Foshan (CN); **Foshan Gaopeng New Material Partnership, Foshan (CN)**

(10) Patent No.: **US 12,368,010 B2**
(45) Date of Patent: **Jul. 22, 2025**

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(74) Attorney, Agent, or Firm — Jose Cherson Weissbrot

(57) **ABSTRACT**
A processing system includes a master control module, an order module, a magnetic sensitive element sorting module, a pin processing module, a lead processing module, a pin lead welding module, a casing module and a glue injecting module, wherein the magnetic sensitive element sorting module is configured to grade and screen magnetic sensitive elements, the pin processing module is configured to process pins of magnetic sensitive elements, the lead processing module is configured to process wires into leads, the pin lead welding module is configured to weld leads on the pins of magnetic sensitive elements to form sensing elements, the casing module is configured to sleeve the sensing elements into the accommodating cavity of a shell, and the glue injecting module is configured to inject glue into the accommodating cavity of the shell to encapsulate the sensing elements and form magnetic switch sensors.

(21) Appl. No.: **17/842,322**

(22) Filed: **Jun. 16, 2022**

(65) **Prior Publication Data**
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(57) **ABSTRACT**



US12368010B2

(12) United States Patent Song et al.

(10) Patent No.: **US 12,368,010 B2**
(45) Date of Patent: **Jul. 22, 2025**

- (54) **WHOLE-PROCESS DIGITAL PROCESSING SYSTEM OF MAGNETIC SWITCH SENSOR AND PROCESSING METHOD THEREOF**

- (71) Applicant: **Sanqiaohui (Foshan) New Material Co., Ltd.**, Foshan (CN)
- (72) Inventors: **Tongcui Song**, Foshan (CN); **Kewen Long**, Foshan (CN); **Shuiyan Song**, Foshan (CN); **Lizhong Zhao**, Foshan (CN); **Xuefeng Zhang**, Foshan (CN)
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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 551 days.

(21) Appl. No.: **17/714,645**
(22) Filed: **Apr. 6, 2022**

(65) **Prior Publication Data**
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(51) **Int. Cl.**
H01H 11/00 (2006.01)
G05B 19/418 (2006.01)
H01H 36/00 (2006.01)

(52) **U.S. Cl.**
CPC **H01H 11/005** (2013.01); **H01H 36/002** (2013.01); **G05B 19/41865** (2013.01); **G05B 19/41875** (2013.01); **G05B 2219/32368** (2013.01); **Y10T 29/49105** (2015.01)

(58) **Field of Classification Search**
CPC H01H 11/005; H01H 36/002; Y10T 29/49105; G05B 19/41865; G05B 19/41875; G05B 2219/32368
See application file for complete search history.

20 Claims, 2 Drawing Sheets

United States of America

To Promote the Progress of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

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