

Big Hanna

Supervision of hatches for composting machine with Eden and Pluto

Segment: Recycling & composting
 Application: Monitoring hatches
 Customer: Susteco AB



Customer and application description

Susteco AB is a Swedish compost systems manufacturer and market leading provider of solutions for on-site composting of food waste. The composting machines, called Big Hanna, have several hatches for adding food waste to the system and accessing the process.

Problem and requirements

All hatches needs to be monitored on the machine to guarantee that no dangerous parts can be reached while the machine is running. Inside the machines the biodegrading microorganisms can create a heat of over 60°C, and the machines are often placed outdoors, requiring sensors that can withstand harsh environments. It should also be possible to easily add more sensors if more hatches are required.

Solution

Pluto safety PLC was chosen as a control unit and for the hatches the non-contact Eden sensors were used. Up to 10 sensors can be connected in series to one safety input on Pluto.

Products used

Product	Article no.	Quantity
Pluto S20 v2	2TLA020070R4700	1
Adam DYN-Info M12-5	2TLA020051R5100	5
Eva General code	2TLA020046R0800	5



Safety and protection

Highest level of safety for the operators



Reliable in harsh environment

Reliable in harsh environment thanks to the IP69K Eden sensor



Cost effective solution

Cost effective solution that is flexible to enable easy future modifications

—

ABB AB Jokab Safety

Varlabergsvägen 11
SE-434 39 Kungsbacka
Tel. +46 (0) 21-32 50 00

www.abb.com/jokabsafety



Conclusion

By using Pluto and Eden with the dynamic circuit, Susteco AB gets a well tried solution perfectly suited for the harsh outdoor environment.

“The system ensures that the people who use Big Hanna feel perfectly safe,” says Cecilia Ek, sales director at Susteco AB. “When you work with Big Hanna you can focus entirely on what’s going on inside the machine without having to think about safety.”

Note

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents - in whole or in parts – is forbidden without prior written consent of ABB.

Copyright© 2019 ABB
All rights reserved