

Dear Customer,

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Automation Digest Issue #7 - July 2006  
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As the saying goes, "Promise yourself only the Best & a Positive Attitude is the key to Success".

In this issue, we bring to you the best in our Safety series where we will share with you the difference of the various Safety classes, Omron miniature Safety conformance Limit Switch & our latest addition to the safety family; Brady Signage which we had introduced in the previous issue.

Not forgetting, the Telemecanique latest variable speed drives which we would like to highlight to you, its specialized designs and the technology behind.

Brief content of this issue:

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1) The various Safety system classes & its difference  
2) Omron D4N miniature Safety Limit Switches  
3) Telemecanique Variable Speed Drives Altivar 21/71

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\*Know about the Safety System Classes

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Do you know that connecting the E-stop directly to the PLC is not complying with safety standards?

Do you know that Safety Door Switch and Sensor has to be connected via a Safety Relay in order to be fully complying with safety regulation?

Do you know that magnetic door switch, area Sensor & proximity sensor are not compliance to safety thus not suitable to be used as a primary safety detection device?

If your answer is No, the below information should be useful:

A Safety System has 5 different safety Categories, B, 1, 2, 3, 4 (B being the lowest and 4 being the highest).

Type 2 Safety Class

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A Type 2 Safety System will have a self monitoring feedback on whether the safety device is functioning.

Our recommendation: Omron Single Beam Sensor (E3Zs and E3FS) complying with Type 2 safety class when use with our Safety Controller (F3SX).

Type 4 Safety Class

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A Type 4 Safety System will have a self monitoring feedback and a redundancy circuit to ensure that fault is detected and stops the operation.

Our recommendation: Omron Safety Curtain Sensor (F3SJ) complying with Type 4 safety class.

\*Other Important points to note:

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In a fully compliance Safety System, all E-Stop Buttons, Safety Door Switches/Lock and Sensors must go through Safety Relay before connecting to the PLC.

Our recommendation: Omron Safety Door Lock/Switch - D4N Series connected to Omron Safety Relay - G9S Series

In addition, we also have Brady Safety Signs for your machines and workplace as mentioned in our Issue #6. (If you have missed that issue, feel free to request from us again)

Don't hesitate to call or email us to find out on how to achieve "Safety Compliance" for your machine.

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\*Omron D4N- Miniature Safety Limit Switches

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Omron D4N is an upgraded safety limit switches based on the popular D4D, providing a full lineup conforming to international standards!

The unit structure consists of;

- The Safety-oriented lever setting; the grooves which engage the lever are out in the lever and rotary shaft to prevent the lever from slipping against the rotary shaft.
- The built-in switch which has a direct opening mechanism that forcibly separates the NC contact even when there is contact deposit.
- The Cover, with a hinge on its lower part can be opened by removing the screw of the cover, which ensures ease of maintenance and wiring.

For more details take a look at page 9 of the catalogs, just a click away at the web address below, or just buzz/email us for the catalogs.

Click here to find out more on the D4N safety switches ->  
[http://www.omron-ap.com/product\\_info/D4N/index.asp](http://www.omron-ap.com/product_info/D4N/index.asp)

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\*Telemanique Variable Speed Drives - Altivar 21/71

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The Altivar 21 drive is a frequency inverter for 3-phase 0.75kW to 30kW asynchronous motors. Designed for state-of-the-art applications in heating, ventilation and air conditioning (HVAC) in the service industry. It deploys a "Harmonic-less" Technology without specialized devices (AC Choke, DC Choke) with THDI<30%.

Brief features:

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- Economical: Designed to optimize your needs. IP54 product with EN 55011
- Simple: "Plug and drive" usage, it enables immediate start-up following its initial connection.
- Compact: Easily integrates in your machines and can be mounted side by side.
- Communication: Modbus protocol. (LonWorks, Metasys N2, APOGEE FLN, BACnet available as option)

Next we have the Altivar 71 drive:

Brief features:

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- Powerful: 0.75 to 500kW 3-phase 380 to 480V. Integrated EMC level A filters.
- Remarkable: Up to 220% overtorque. Speed or Torque Control
- User Friendly: Graphical LCD Screen for easy navigation and settings. Real-time display
- Expandable: Basic Equipment with a wealth of features: application functions, inputs/outputs card, communication networks card (Standard protocol: Modbus and CANopen)

Click here to download more info on the Altivar Drives ->  
<http://ecatalog.schneider-electric.com/>

Type (ATV) under "Searches" and you will see ATV71 variable speed drive.

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Lastly, thanks for your time once again and we look forward to provide you with more updates in our next issue.

Best regards,  
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