

## F4-SDS

### SDS master module connects to intelligent I/O

The Smart Distributed System (SDS) was developed by Honeywell for use with a wide variety of PLCs and I/O field devices from many different manufacturers. These devices support the communication protocol in the Bosch V2.0 Controller Area Network (CAN) specification. The SDS interface allows you to connect intelligent input and output devices such as limit switches, photoelectric and proximity sensors, positioners, and valve actuators, directly to the SDS network. The SDS network module replaces standard I/O modules, and accepts up to 64 discrete inputs or outputs.

### Fast and easy installation

The installation and maintenance of SDS network devices takes significantly less time than traditional I/O. The use of quick-disconnect connectors eliminates tedious wire terminations which are required each time an ordinary field device is installed or replaced. Wiring errors are virtually eliminated.

### Built-in diagnostics

The built-in diagnostic features of SDS allow you to anticipate many potential problems before a failure results in costly machine downtime. Diagnostic functions are dependent on the field devices but may include broken-coil detection, sensor out-of-alignment (marginal gain), number of operations, power cycle monitoring, etc.

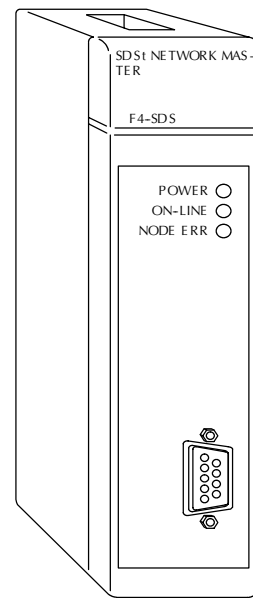
### Setup

The SDS module is installed in the CPU base and controls up to 64 individual field devices. The SDS-compatible field devices are connected to the communications "trunk" cable using T-connectors (as shown below). Various communication speeds are available, but the maximum speed depends on the length of the trunk cable (see the table on the facing page).

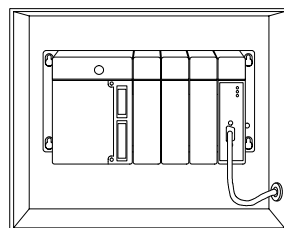
### Programming

By adding a few lines to your control program, you identify the number of SDS inputs and outputs and their addresses, as well as the memory locations for error codes, I/O status, etc. You can use SDS inputs and outputs the same way you would use ordinary hardwired I/O.

### SDS Interface

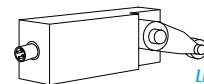


Number of Channels: DL405 PLC supports a maximum of 8 SDS network modules. Each network can be a different speed and/or distance.

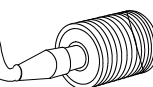


Panel Connector  
SDS connector mounts in cabinet. 4-wire cable from module to connector

Field Devices  
A wide variety of field devices are available.



Limit Switches



Prox. Switches

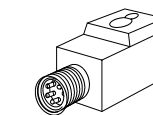
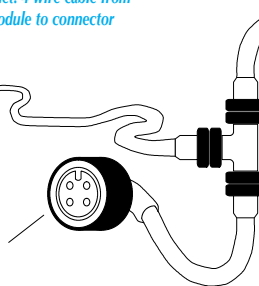


Photo Sensors

Quick Disconnect Connectors provide quick and easy field device connections.



DL405

