

OMEGA AS-i (CONTROL UNIT)



The SOLDO OMEGA AS-i unit combines a compact enclosure with limit switches, visual indication and integral solenoids for position indication plus valve actuator control.

This unit incorporates the features and advantages of digital communication. By utilizing a common communication protocol known as AS-i (Actuator Sensor-interface) it is possible to create a network of devices that are connected to each other with a single pair of wires.

This single pair of wires can be utilized for both communication of valve/actuator position and also to supply power to the valve/actuator solenoid valve installed inside the OMEGA unit.

The SOLDO OMEGA AS-i unit can be also provided with a M12 connector, this feature makes AS-i limit switch box installation faster and safe (you don't need to open the switch box cover).

Available on request a Dribble Control execution that allows the OMEGA unit to operate the 3 position valve control for both spring return and double acting actuators.

The SOLDO OMEGA AS-i unit can then interface with a device known as a Gateway. The Gateway allows the limit switch box to communicate with higher level bus systems such as Profibus, ModBus and DeviceNet.



(TECHNICAL SPECIFICATION)

- Active AS-i module
- AS-i version 2.1 with extended addressing mode
- Operating voltage 26,5 ... 31,6 VDC
- Current consumption < 200 mA
- Short-circuit protection (input / output)
- AS-i profile S-7.A.F.
- I/O configuration 7 HEX
- ID code A.F. HEX
- EMC EN 50295
- PCB sealed to prevent premature failure due to moisture or contamination

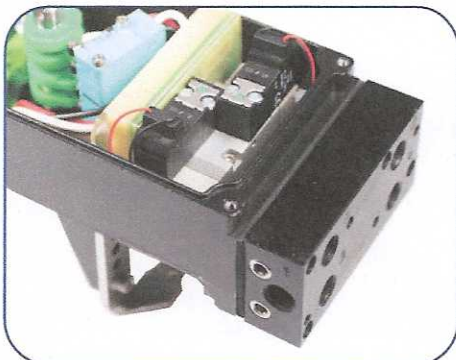
- INPUTS:** Sensor supply by AS-i bus
Voltage range 20 ... 30 VDC
2 extra digital input available for external signal
- OUTPUTS:** Integrated watchdog
Max current load per output 100 mA ⁽¹⁾
External power supply by AS-i
Max current load for all inputs/outputs 180 mA
Additional third output available for the control of an auxiliary device
- DATA BIT FUNCTION**
- D0 Input I1 - Output O1
- D1 Input I2 - Output O2
- D2 Input I3 - Output O3
- D3 Input I4

NOTES

A watchdog function switches the outputs off if there is no communication on the AS-i cable, ensuring that the actuator fails on loss of communication.

For dimensional drawing and housing technical information consult the Omega bulletins

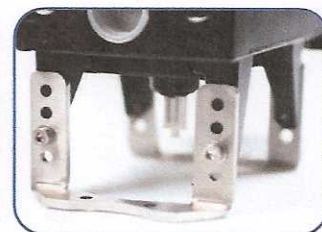
⁽¹⁾ Observe the total max current load for all inputs and outputs



Solenoid valve and pneumatic manifold



AS-i connector



Universal mounting kit