SPIDER I/O

Expansion module

For SPIDER pump control, an expansion module has been developed that allows for more digital and analog inputs. The newly developed module is called SPIDER I/O. By using this module, SPIDER pump control becomes even more flexible and can therefore also function as an advanced 1 or 2 pump control with the option of connecting several operating and alarm signals.

At the same time, it will also be possible to collect data from frequency converters and other instruments with bus communication. When SPIDER I/O is connected to SPIDER pump control, the status of the digital and analog inputs can be read on the top board, as LEDs are mounted here for indication. It gives the user a good overview during commissioning and testing of the module.

SPIDER I/O is a Danish developed and produced product, which complies with all specifications for electronics components that are placed in harsh environments. SPIDER I/O is not EX-classified and must therefore not be installed in EX areas.

Applications

- Used in connection with SPIDER pump control

Products

Item number	Description
1772-2103824	SPIDER I/O Extension module.
1772-2102164	Serial interface for SPIDER external HMI display. Incl. 1.5m cable set.

Technical specifications

Dimensions	W=87mm x H=90mm x D=62mm
Weight	250g
Wire connection	0.5 – 2,5 mm2
Vibration (sinusoidal)	10-500Hz, 1G
Free fall drop	30 cm
Enclosure class	IP20
Power supply	230V AC +10% / -20%
Frequency	50/60Hz
Input power consumption	0,004 to 0,06A
Starting current	< 10A
Consumption	Max. 10W
Fuse	≤ 250mAT
Certificates	CE

Enviroment

Humidity	Humidity 10% – 95% non-condensing air
Operating temperature	-20°C to +50°C
Storage temperatur	-20°C to +60°C
Functional altitude	Max. 2000m above sea level
Tolerance	+/- 20%

Analog inputs

Number of analog mA inputs	2
Electrically insulated	No
Measuring range	0/4–20mA
Input impedance	Approx.100Ω
Measurement accuracy	Better than 0,5% of FS
Signal range	0-24mA / 0–30V DC
Cable/signal length	Max. 100m

Digital inputs

Number of digital inputs	8
Electrically insulated	No
Digital signal	Low < 5V / < 1mA High > 12V / > 4mA
Analog signal measuring range	0–10V DC
Analog signal impedance	Ca. 20KΩ
Measurement accuracy	Better than 1% of FS
Signal range (min/max.)	0–30V DC
Cable/signal length	Max. 100m