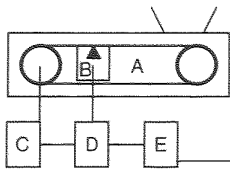




HASLER Control and Drive Module SMART CONTROL MODULE (SCM)

K-SCM
technical sheet



- A Feeder (Example Weigh Belt Feeder)
- B Weighing System
- C Motor drive Unit
- D Smart Control Module SCM
- E Single Unit KSU

Each HASLER weigh feeder consists of the components A, B, C, D and E.

This technical data sheet describes component D

Description

With the new SmartConnex™ control system, the control and drive modules of a feeder are combined into one component and are integrated directly into the feeder. The name of this component is: SC-Module or Smart Control Module (SCM). Every HASLER feeder and meter can have its own Smart Control Module mounted directly on the feeder. The SCM knows specifically how to control each particular machine for both batch and continuous processes.

Connection to additional weigh feeders and the operator interface is made via LON Bus.

The SCM is wired and tested in the manufacturing plant, this eliminates the complicated and time-consuming wiring work. The large, free-standing control panel is either slimmed down to wall-mounted size or removed. Initial hardware and installation costs are reduced by using off-the-shelf I/O modules and minimal field wiring.

Depending on the application, the SCM is equipped with various cards.



Communication with the host system

Connection to the plant's own host system can also take place from the Smart Control Module.

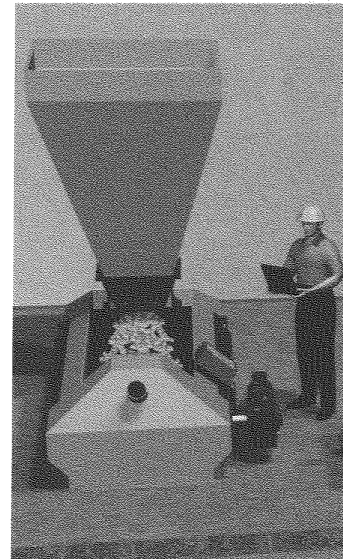
The list of available protocols is constantly growing. Protocols for SCM are:

- Modicon Modbus 1
- Allen-Bradley Data Highway
- Siemens 3964 R

Communication directly at the SCM

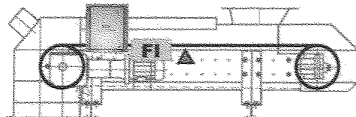
The SCM has a cable-free infrared data link allowing users to perform configuration or diagnostics of the SCM with a notebook computer.

Communication can also be performed via a RS232 cable.

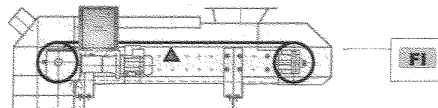


The 3 installation options

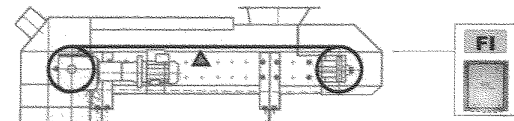
1) SCM mounted on the feeder and motor with frequency inverter integrated



2) SCM mounted on the feeder and frequency inverter in separate enclosure, at the feeder or remote



3) SCM and frequency inverter in separate enclosure remote from the feeder





Technical Data

Power Requirements

- Supply Voltage: 115 V AC $\pm 10\%$ or 230 V AC $\pm 15\%$
- Supply Frequency: 47 - 63 Hz
- Max. Power Consumption: 50 W (with CPU and all peripherals)
- Switch-On Current: Max. 2 A for 2 AC power cycles

Electrical Standards

- Generic Electrical Emissions: EN50081-2
- Generic Electrical Immunity: EN50082-2
- US Electromagnetic Compatibility Standards: US 47CFR Part 18
- Electrical Safety (Europe): EN 61010-1
- Electrical Safety (North America): National Electrical Code

Electrical Approvals

- United States and Canada: National Code
- Europe: CE

Environmental Ratings

- Area Classification: General Purpose
- Operating Ambient Temperature: -20° C to 60° C
- Storage Ambient Temperature: -25° C to 70° C
- Operating Altitude: < 3000 m
- Max. Humidity: 95% at 25° C without condensation (DIN 40040 Class F)
- Degree of protection: IP 65, NEMA 4

General Output Specifications

- Motor Drive Signal: 0-20 mA ($\geq 500 \Omega$)
0-10 V ($\geq 2000 \Omega$)

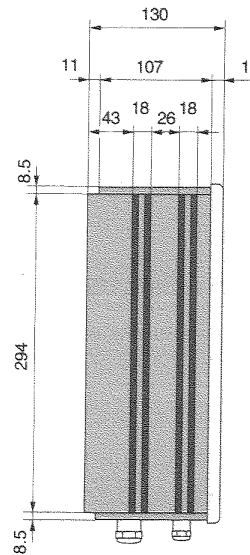
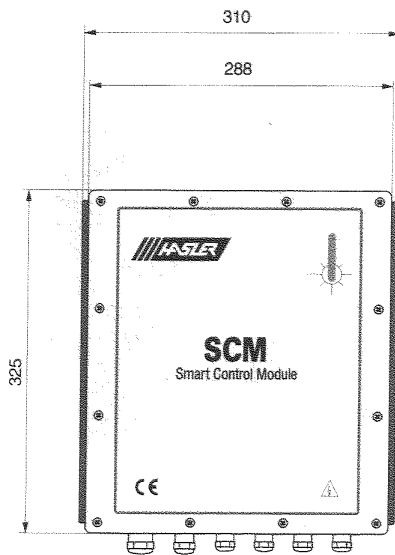
Process I/O Functions

An I/O terminal module contains:

- Inputs (dedicated): 3
- Safety switch: 1
- Encoder: 2
- Relay outputs: 3
- Analog output: 1
- Analog load cell input: 1 (optional)

Basic Dimensions [mm]

Field Version



Option

The SCM is available as a panel version with reduced dimensions.

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