



0656 FlexLim Overload System



Description

The BROSA 0656 Overload System records a maximum of 8 different sensor signals, e.g. force, angle or pressure. These are evaluated and scaled in the system and sent to the individual software modules. A detailed functional description of the system can be found in the software description. Typically, the following functions are monitored on a container crane:

- Crane and spreader overload
- Corner loads
- Eccentricity
- Minimum load (spreader landed/slack rope)

Crane information and status messages are output via a bidirectional interface PROFIBUS, PROFINET (PROFIsafe). A safety-oriented hardware output, as well as 8 digital inputs and 8 digital outputs, are also available.

Load spectra according to guidelines FEM 9.511 and FEM 9.755 are also available. The crane status is visualised via a graphic display. The 0656 FlexLim Electronic Overload System is supplied in a robust and vibration-proof housing with IP67/69k protection. It can be installed either in a control cabinet or externally. A customer-specific connection via a terminal strip and various interface modules is optional.

The 0656 FlexLim Safe Overload System meets performance level d, category 2 according to EN 13849 and SIL 2 in accordance with EN 61508.



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Item number	1035059
Description	0656 FlexLim Safe
Input signals	Type 8 × CANopen (Safety)
Supply voltage	24 V DC (10–30 V DC)
Analogue outputs	2 × 4–20 mA
Digital inputs	8 × 24 V
Digital outputs	8 × Switching capacity type 24 V/500 mA
	1 × Safety output type 24 V/500 mA
Interfaces	1 × PROFINET IO (PROFIsafe) Slave
	1 × PROFIBUS DP Slave
	1 × CANopen (Safety) Slave
	1 × RS 485
	1 × RS 232
System configuration	via RS 232-USB converter with PC, terminal program
Housing	Cinch MODICE SE
Electrical connection	Connector with crimp contacts (0.5 mm ²)
Protection class	IP67 / IP69k
Operating temperature	-40 to +80°C
Short circuit protection	Yes
Reverse polarity protection	Yes
Vibration resistance	14 g
Shock resistance	10 g
EMC	CISPR 25/EN 55025
	DIN ISO 11452-4
	DIN ISO 11452-5
	DIN ISO 11452-2
	DIN 40839 T1/ISO7637-2
	EN 61000-4-2
	EN 61000-4-4

Display

The 4.3" or 7" display is the perfect complement to the BROSA Overload System. Here, all relevant data and operating states are displayed in a visually appealing way.



Housing Dimensions

Display screen	4.3" Display	7" Display
L × W × H	48 × 142 × 98 mm	56 × 224 × 145 mm
Resolution	480 × 272 px (WQVGA), 15:9	800 × 480 px (WQVGA), 15:9
Connection	CANopen	CANopen
Supply voltage	9–36 V DC	9–36 V DC
Working temperature	-30 to +65 °C	-30 to +65 °C
Protection class	IP 65/66	IP 65/66



ISO 9001:2015
ISO 14001:2015



94/9/EC