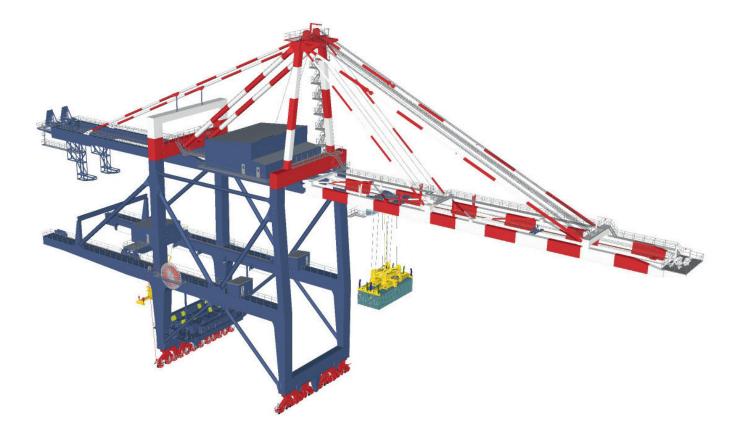


0656 FlexLim Overload System





Description

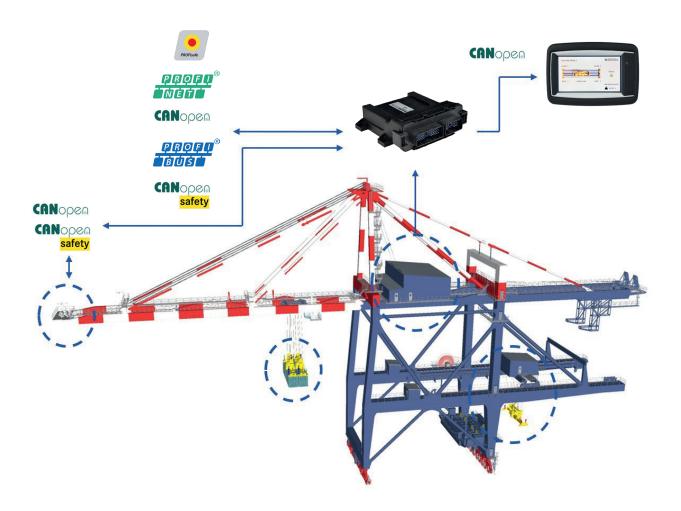
The BROSA 0656 Overload System records a maximum of 8 different sensor signals, e.g. force, angle or pressure. These are evaluated and scaled in the system and sent to the individual software modules. A detailed functional description of the system can be found in the software description. Typically,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



Technical Data



Document No. 1035059TD2

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
$L \times W \times H$	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



© BROSA GmbH • Dr. Klein Straße 1 • 88069 Tettnang • Germany • Telephone 0049 (0)7542 93 35 0 • Fax 0049 (0)7542 93 35 3 • info@brosa.net • www.brosa.net. The data provided is for product description only and should not be construed as a warranted property in the legal sense. We reserve the right to make changes due to further technical developments. Issue 2022/09