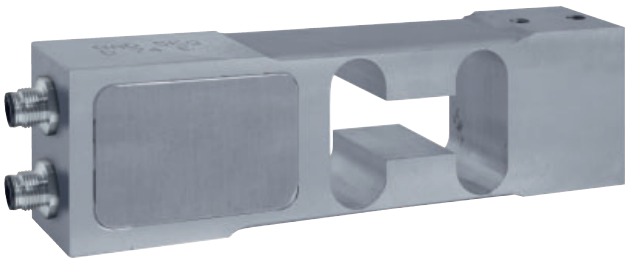
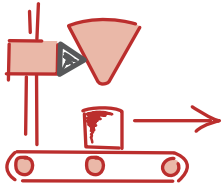
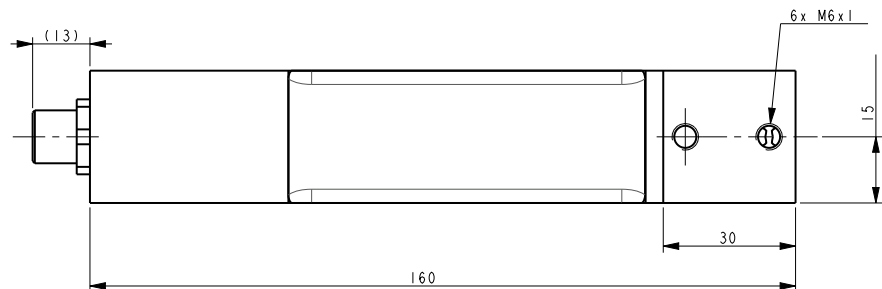
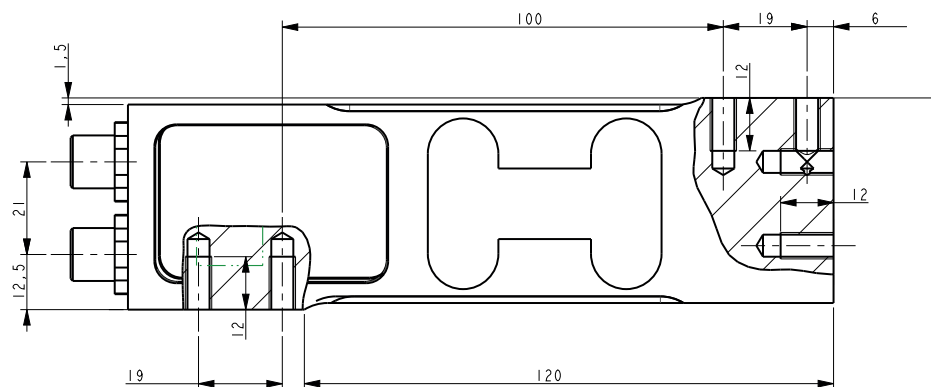
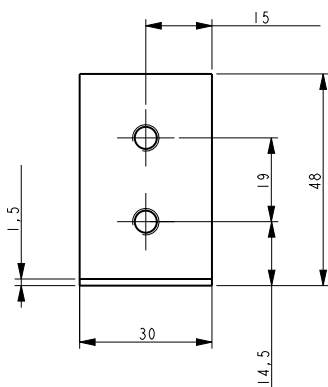


AAD-D

5 kg ... 75 kg



- Digital single point load cell
- Aluminum construction, IP65 protection level
- High accuracy load cell with compact design
- Function: dosing by filling and unloading
- 2 digital inputs and 4 outputs
- Port RS485 Modbus and port CANOpen
- Certification OIML R76, R61 (15kg...75kg)



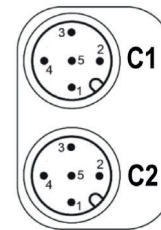
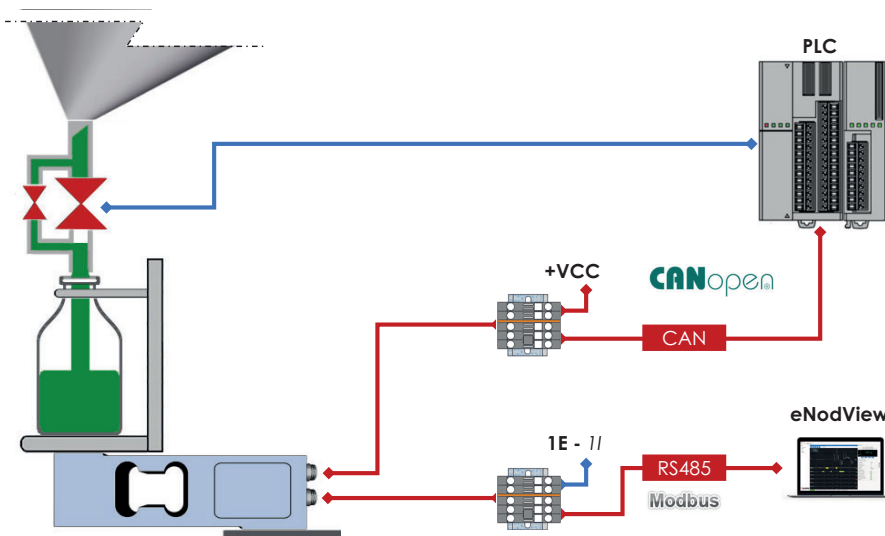
All dimensions in mm. Dimensions and specifications do not constitute any liability whatsoever. Technical drawings are available on request.

Presentation

- **High performance digital load cell**
 - Optimized design for use in high accuracy dosing and packaging machines
 - Built-in electronics with 24-bits A/D converter allowing a resolution up to 500,000 points
 - Digital filters dedicated to the elimination of vibrations and mechanical disturbances
 - Software for dynamic checkweighing, grading, or high-speed measurement transmission
- **In-built Inputs/Outputs for process control**
 - 2 digital inputs and 4 outputs fully configurable (depending on wiring version)
- **PLC connectivity**
 - 1 PLC link RS485 MODBUS-RTU or CANopen

Interfaces diagram, serial versions

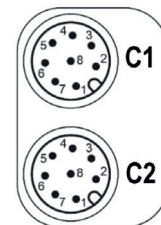
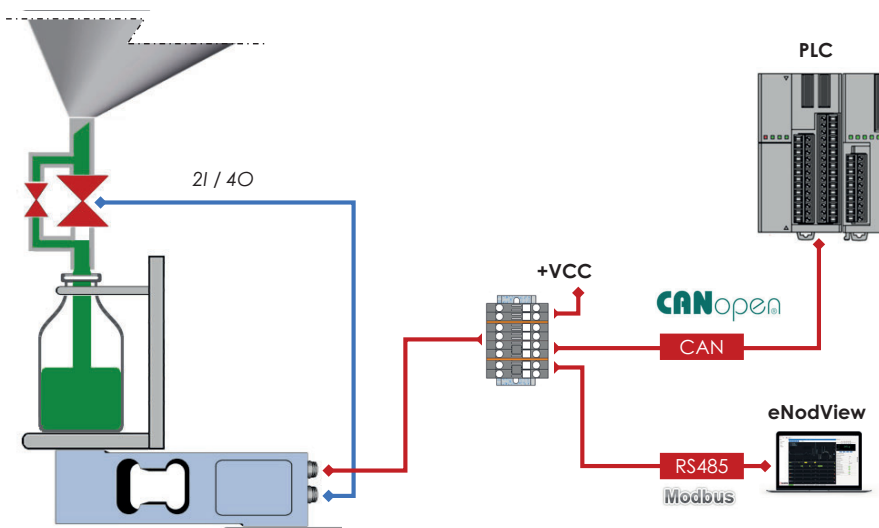
11A wiring: CAN, RS485, 1 digital Input



Pin	C1	C2
1	NC	E1 -
2	+ VCC	E1 +
3	GND	GND
4	CAN-H	TA / RA
5	CAN-L	TB / RB

▲ 2 connectors M12-5pts male

22A wiring: CAN, RS485, 2I / 4O



Pin	C1	C2
1	GND	E _{COM} -
2	+ VCC	E1 +
3	NC	E2 +
4	NC	S _{COM} +
5	CAN-H	S1
6	CAN-L	S2
7	TA / RA	S3
8	TB / RB	S4

▲ 2 connectors M12-8pts male

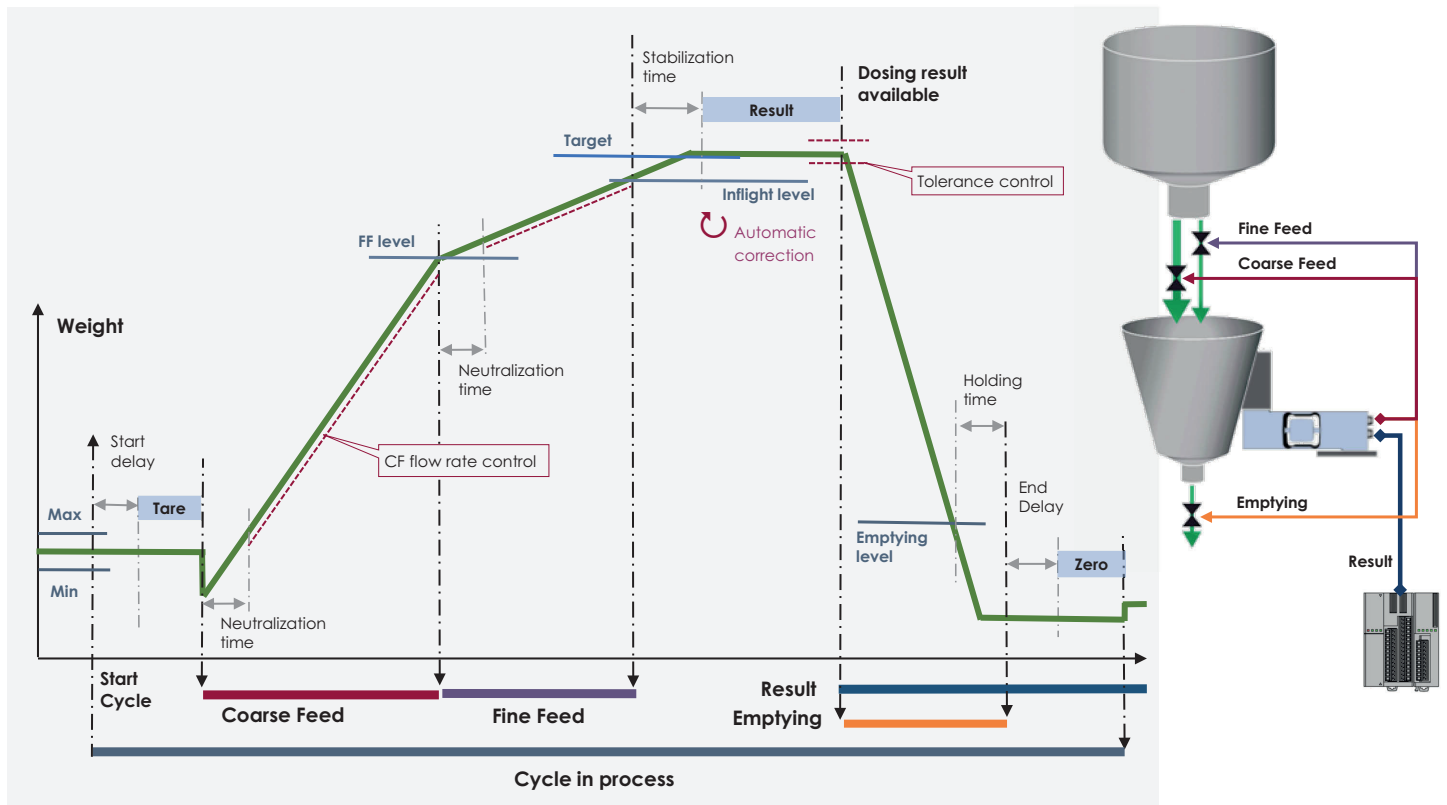
General functionalities

- **Calibration**
 - Factory calibration: 500 000 pts at rated capacity
 - Measurement scaling
 - Digital identification: Mark, Model, serial N°, capacity, unit, user data
- **Signal processing**
 - High speed measurement rat: Internal up to 1600Hz, transmission up to 800 Hz
 - Configurable digital Low-pass filter
 - Configurable digital Notch filter
- **Functions**
 - Zero, tare, zero tracking, Stability control

Dosing functionalities

- **Control of single-product dosing cycle:**
 - Filling or unloading, control of 1, 2 or 3 feeds
 - Configurable starting conditions
 - Tare at start and/or zero at end of cycle
 - Automatic correction of inflight level
 - Management of emptying/ejection (in filling) or loading (in unloading)
 - Control of dosing tolerances
- **Optimized functions for dynamic fillers**
 - Dynamic calculation mode for result
 - Filtering mode with configurable cut-off frequencies according to the cycle steps
 - Monitoring of filling flow rate

Example of filling cycle management



Specifications

METROLOGICAL					
Rated capacity (Cn)	5	15	30	75	kg
Combined error	±0.019				%Cn
Temp. effect on zero	±0.0011				%Cn/°C
Temp. effect on sensitivity	±0.0016				%Cn/°C
Creep error (30 min.)	±0.028				%Cn
Maximum platform size	500x400		600x400		mm
Serial version - n (OIML R76)	No	3000			d
Serial version - e (OIML R76)	No	1	2	5	g
Nominal temperature range	-10 ... +40				°C
Service temperature range	-20 ... +75				°C
ELECTRICAL					
Power supply	10 ... 28 VDC / 0.6 W				
A/D converter	24-bits / 4kHz				
Rated sensitivity at Cn	500 000				pts
Zero balance	±300				pts
Internal conversion rate	6 ... 1 600				Conv./s
GENERAL					
Safe load limit	150				%Cn
Ultimate overload	200				%Cn
Tightening torque	15		17		Nm
Protection level	IP65				EN60529
Material	Aluminum				
Load cell body	Nickel-plated brass				
connector					
Connection	M12 male - 5 / 8 pts				
Fixing (screw, quality, penetration)	M6x1, Cl A4-80, 6 min - 10 max				
Net weight	0.5				kg
DIGITAL I/Os					
	NB				
Digital inputs	2	Class 3: 11 ... 30 VDC / 12.6 mA			
Digital outputs (static relays)	4	53VDC / 37VAC max. / 400 mA max.			
COMMUNICATION					
1 RS485	Half Duplex, 9 600 ... 115 200				
- Protocols	Modbus-RTU				
CANbus output / CANopen®	CAN 2.0A / 10 kbps ... 1 Mbps				
- Protocols	CANopen, LSS v3.0				
Max. update frequency of data (measurement) on the bus	CAN				RS485
	800/s				200/s

Accessoires

Connection cables	2 m / 5 m - M12 5 / 8 poles
Converter	RS485 / USB

