



Industry actuators with integrated controller (icon) enable the use of MODBUS RTU on an RS485 serial communication. One of the industry's most powerful standards.

The icon options provide everything from easy maintenance, control and installation, to a wide range of customizable settings and feedback that will help tailor the movement solution to your specific needs and application.

## Standard Specifications

### Motor/Gear

#### Temperature:

Operation: - 20 °C to + 70 °C; Storage: - 40 °C to + 70 °C

#### Cable specification:

Cores: 2 x AWG16 + 6 x AWG 28, Ø = 6,4 mm, black jacket, Molex Mini-Fit Jr. 8 pin or similar.

#### Bending Radius:

6 x cable diameter

### Stroke length/weight

Stroke	[mm]	50	100	150	200	250	300	350	400	500	750
Weight	[Kg]	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,7	1,9	2,4

Actual weight may vary depending on model and options selected

For other mechanical data please refer to Concens standard con35/50/60 datasheet.

## Options

- Test reports are available on request. Low noise version Other cable lengths (for 1 - 9 m at 24Vdc and 1 – 5 m at 12Vdc)

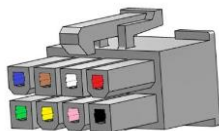
Configuration P/N letter	SDB (C2-10) A	SDH (C2-10 + hall) B	SDP (C2-10 + pos. out) C	SPP (C2-20) D	SBS (bus based) E	MDO (synchronization) F
Description	Single/Direction/Basic	Single/Direction/Hall	Single/Direction/Position	Single/Position/Position	Single/Bus/Status	Multiple/Direction/Override
1	+12/24VDC	+12/24VDC	+12/24VDC	+12/24VDC	+12/24VDC	+12/24VDC
2	PWR GND	PWR GND	PWR GND	PWR GND	PWR GND	PWR GND
3	RS485A	RS485A	RS485A	RS485A	RS485A	RS485A
4	RS485B	RS485B	RS485B	RS485B	RS485B	RS485B
5	Input: Direction IN	Input: Direction IN	Input: Direction IN	Output: Ref. 5/10VDC	Input: STOP	Input: Direction IN
6	Input: Direction OUT	Input: Direction OUT	Input: Direction OUT	Input: Position (analog)	Output: Error	Input: Direction OUT
7		Output: HallA	Output: Position (analog)	In/output: STOP/Pos. OK		Input: Override
8		Output: HallB				
	Single actuator setup					Multi actuator setup










Contact Concens for availability at this time.

## Dimensions

Same BID as con35/50/60 with Hall. See Concens standard con35/50/60 datasheet

## Electrical Wiring



	SDB	SDH	SDP	SPP	SBS	MDO
	+ 24 Vdc. (max 28 Vdc, min at 1 meter cable 18 Vdc)					
	+12 Vdc. (max 14 Vdc, min at 1 meter cable 10 Vdc)					
	GND					
	RS485A+					
	RS485B-					
	Direction in	Direction in	Direction in	Pos in	HW stop	Direction in
	Direction out	Direction out	Direction out	Pos ok out	Error out	Direction out
	Not used	Signal Hall B out	Signal-GND	Signal-GND	Signal-GND	Signal-GND
	Not used	Signal Hall A out	Position Voltage out	5 – 10 Vdc ref.	Not used	Override

## Electrical Data

<b>Max. Current load:</b>	icon35: 2 Adc @ 24 Vdc, 4 Adc @ 12 Vdc icon50: 8 Adc @ 24 Vdc, 16 Adc @ 12 Vdc icon60: 16 Adc @ 24 Vdc
<b>Min. Current idle:</b>	10 mAdc
<b>Supply voltage:</b>	12 Vdc (min 10 Vdc at 1 meter cable, max 28 Vdc) or 24 Vdc (min 20 Vdc at 1 meter cable, max 14 Vdc)
<b>Serial data line:</b>	RS485 asynchronous, point to point or multi-point, 2 wire half-duplex.
<b>Communications:</b>	Modbus RTU
<b>Bauds rate:</b>	115000 bps
<b>Com setup:</b>	8 Bit, Parity -None, Stop bit -1

For more information on Modbus RTU please go to <https://modbus.org>  
 MODBUS over serial line specification and implementation guide V1.0

*For other mechanical data please refer to Concens standard con35 datasheet.*

## Disclaimer

- Concens products are continuously developed, built, and tested for highest requirements and reliability but it is always the responsibility of the customer to validate and test the suitability of our products in a given application and environment.
- Concens is not liable for any expenses due to change in normative, standards, Regulation or directive.
- We do our utmost to provide accurate and up-to-date information at all times. In spite of that, Concens cannot be held responsible for any errors in the documentation. Specifications are subject to change without prior notice. For more information, please visit our website at [www.concens.com](http://www.concens.com)