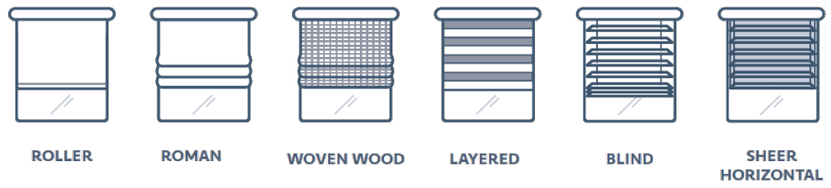
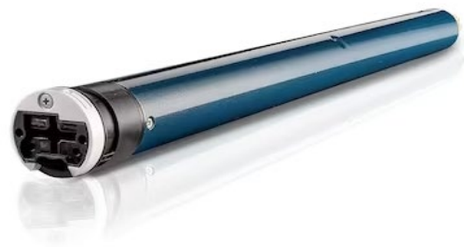
Sonesse2 40 Zigbee - Range 2
TECHNICAL DATASHEET

DOC186950		
TDST Sonesse 40 Zigbee - Range 2		
Based on DOC161449		
Date	Index	Page
02/06/2023	000	1/1

Application scope





Main functionalities

- AC powered motor
- Quiet operation (Sonesse level)
- Up to 9Nm nominal torque
- Suitable for tube diameter 40mm or more
- Open and bi-directionnal protocol on RS485 bus
- Venetians managed with 2 dimensions

Technical features

Nominal voltage / Frequency	120V - 60Hz
Power supply tolerance	108 - 132V
Cable *(section/nb wires/length)*	SVT 2 wires - AWG 18 : 0,824 mm² / Fast Connector 20cm
Removable cable	No
Insulation class	Class II
Index protection rating	IP 30 - For indoor use only
Type of limit switch unit (LSU)	Electronic
Capacity of the LSU	250 turns
Minimum distance between limits	1 turn
Capacity of memory	Not Applicable
Related interface drawings	Crown GEO113303 Drive Wheel GEO134616 Motor Head GEO180244

Temperature working range	0°C - 60°C
Temperature storage range	-20°C to 75°C
Antenna	17,5 cm wire length, must not be cut or lengthened. For greatest RF range, antenna must be out out the rail/tube/cassette

Radio

Radio frequency	2,4 GHz
Radio protocol	Zigbee 3.0, Bluetooth 4.2
Radio range (The radio range may be affected by RF environment)	
• **Not connected**	Room range
• **Connected**	House range – Radio range extended by adding routers (Mesh network) One router per room is recommended and max 6 Wirefree motors per router
• **Bluetooth**	3m

Specifications

Performance

Repeatability *(on output shaft)*	+/- 4°
Lifetime	320 000 axis shaft revolutions *(eq. to 10 000 cycles on a test bench, 2m high)*
Operating time	4 minutes
Wheel unclipping force	~ 7 Kg

Approvals

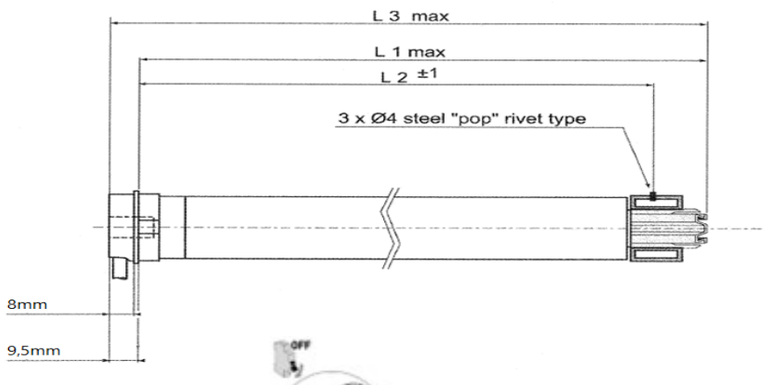
c UL us LISTED

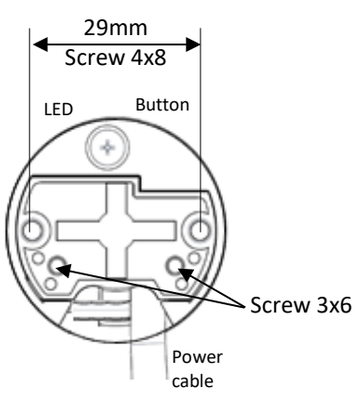
FC

Range

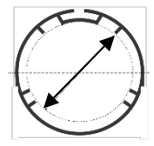
Unit	N.m	N.m	N.m	rpm	mm	mm	mm	mm	W	W	-	Kg	dB(A) re 1pW
Designation	**Nominal Torque**	**Minimum Torque**	**Stall Torque**	**Nominal Speed**	**L1**	**L2 ±1**	**L3 max**	**Tube**	**Rated power***	**Stand by Consumption**	**Brake type**	**Weight**	**Noise***
Sonesse2 40 ZIGBEE 4/36	4	0,3	12	36	504	483	514	445	95	<0,5W	Spring	1,25	42
Sonesse2 40 ZIGBEE 6/24	6	0,3	16	24	535	514	545	476	120	<0,5W	Spring	1,40	44
Sonesse2 40 ZIGBEE 9/14	9	0,3	24	14	535	514	545	476	120	<0,5W	Spring	1,40	40

* according to standards ISO3741. Average typical value at nominal torque Between Up and Down direction at nominal torque on test bench. Room temperature (25°C)



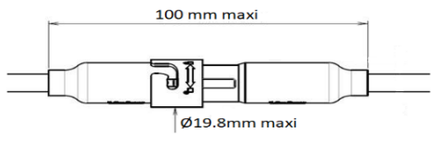


WIRING	Neutral	White
	Live	Black



Ø free >37mm mini





Fast Connector version **Fast Connector assembly**

Limitations

For interior use only.

Min torque = 0,3Nm. At any time between End Limits (To avoid jumping and risk of noise linked to integrated motor plates)

Maximum Radial effort on the head = 25kg

Use a junction box for connection