



MULTI TURN SERIES

SERIES 20, 50, 80-110



SMART SERIES WITH MULTI TURN FUNCTION

- Available from 20Nm to 110Nm torque output
- Designed with non rising stem valves in mind, gate valves, diaphragm valves and knife gate valves
- On Off and Modulating functionality available
- ***Failsafe not currently available***
- Unique functionality with customisation via firmware

Version 001: 3/10/22 subject to change without notice

MT Series: Overview of specification available for our Multi Turn actuators

Torque Output:	Series 20, 50, 80-110Nm currently, <i>soon to be expanded to cover our 200-400Nm actuators</i>
Voltages available:	24VAC/DC or 95-265VAC only
Housing:	Plastic or Aluminium housing, IP67/Nema 4X rated
Manual Override	Included as standard. Local control available whilst actuator powered via firmware.
ISO Mount:	Yes, ISO 5211 compliant, see page 2.
Position Feedback:	End of travel confirmation. Modulating actuators provide 4-20ma or 0-10V feedback.
EXD Rated:	No, not designed for use in hazardous locations. 

MT Series: Important specification details for our Multi Turn actuators

Features / Series:	Series 20	Series 50	Series 80	Series 110
Torque Rating Nm:	20Nm	50Nm	80Nm	110Nm
Max Turns: set via firmware	0-5	0-15	0-20	0-20
Hi Speed 24VDC Run Time: based on max number of turns	20s	X	X	X
Hi Speed 24VAC/DC Run Time: based on max number of turns	100s	250s	480s	480s
Hi Speed 95-265VAC Run Time: based on max number of turns	100s	250s	480s	480s

* Only our 20Nm using a 24VDC motor can achieve 1 second per 90 degree, 4 second per 360 degree rotation.

Note: Run times will vary depending on valve torque, voltage, power supply. Run times shown are approx, for guidance only.



MT actuator can be mounted once below steps are completed. We start with the valve and work our way up. We can set the required number of turns via our SMARTMENU™ to match the valve number of turns. This can be very precise, for example 2.7 turns.

Once the valve has been selected, we are able to fabricate an actuation bracket to suit the valve to enable us to mount our actuator. Most valves of this type are *not* direct mount and will require a bracket and drive adapter. We can also accept free issue valves to actuate.

Valve needs to be non rising stem. Example shown is SAFI brand of plastic diaphragm. Other valves include flanged gate valves and knife gate valves. If your valve has a small amount of rise in the stem, in some cases we can still actuate your valve. Contact us for discuss.

**Note that if using our Hi Speed 20 with 95-265VAC, over torque protection will only operate above 180VAC. We suggest for hi speed 20 series, 24VDC actuators are used.*

Technical Support: (03) 9290 9813

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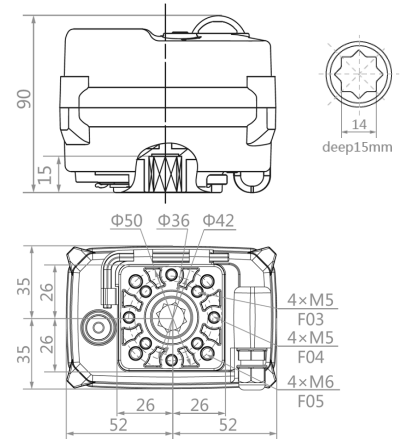
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TECHNICAL SPECIFICATIONS FOR MT SERIES

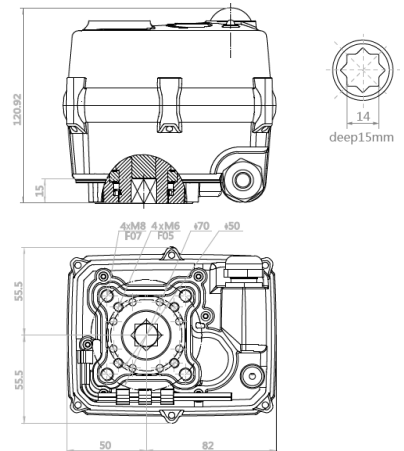
Series 20 Overview: *for more information on our Series 20, see specific product datasheet including wiring diagrams.*

Torque Rating:	20Nm rating for MT series, all voltages
ISO Mount:	F03/04/05 (note that F04 is at 45 degrees)
Output Drive:	14mm double star drive, 15mm deep
LED:	Yes, RGB Open, Close, Alarm, 3rd Position
Wiring:	Pre wired 7 core cable, 0.8m length as standard
Voltages Available:	24VDC, 24VAC/DC or 95-265VAC
Power Ratings:	See actuator datasheet for run and peak power ratings.
*Only 20 Series is available 24VDC, this can achieve the fastest run time.	



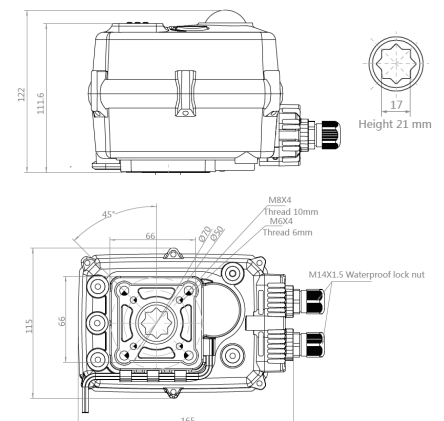
Series 50 Overview: *for more information on our Series 50, see specific product datasheet including wiring diagrams.*

Torque Rating:	50Nm rating for MT series, all voltages
ISO Mount:	F05/07
Output Drive:	14mm double star drive, 15mm deep (17mm output option)
LED:	Yes, RGB Open, Close, Alarm, 3rd Position
Wiring:	Pre wired 7 core cable, 0.8m length as standard
Voltages Available:	24VAC/DC or 95-265VAC
Power Ratings:	See actuator datasheet for run and peak power ratings.



Series 80-110 Overview: *for more information on our Series 80-110, see specific product datasheet including wiring diagrams.*

Torque Rating:	80Nm or 110Nm rating for MT series, all voltages
ISO Mount:	F05/07
Output Drive:	17mm double star drive, 21mm deep
LED:	Yes, RGB Open, Close, Alarm, 3rd Position
Wiring:	2 x Conduit Entry for terminal connection via Wiring Box.
Voltages Available:	24VAC/DC or 95-265VAC
Power Ratings:	See actuator datasheet for run and peak power ratings.





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ADDITIONAL DATA FOR OUR MT SERIES

Series 20 Multi Turn actuators: F03/04/05 x 14mm Output drive to ISO 5211 - *note that run times without load*

Part Number	Voltage	Function	Speed 0-1800°	Torque Nm/In-lbs	Max Turns	Price
S2010MT-6-14	24VAC/DC	On Off	200 seconds	20Nm/ 177in-lbs	5	POA
S2010MT-5-14	95-265VAC	On Off	200 seconds	20Nm/ 177in-lbs	5	POA
S2019MT-4-14	24VDC	On Off Hi Speed	20 Seconds	20Nm/ 177in-lbs	5	POA
S2019MT-5-14	95-265VAC	On Off Hi Speed	100 Seconds	20Nm/ 177in-lbs	5	POA
S2025MT-6-14	24VAC/DC	Modulating 4-20mA	200 Seconds	20Nm/ 177in-lbs	5	POA
S2025MT-5-14	95-265VAC	Modulating 4-20mA	200 Seconds	20Nm/ 177in-lbs	5	POA
S2029MT-4-14	24VDC	Modulating Hi Speed 4-20mA	20 Seconds	20Nm/ 177in-lbs	5	POA
S2029MT-5-14	95-265VAC	Modulating Hi Speed 4-20mA	100 Seconds	20Nm/ 177in-lbs	5	POA

Series 50 Multi Turn actuators: F05/07 x 14mm Output drive to ISO 5211 - *note that run times without load*

Part Number	Voltage	Function	Speed 0-5400°	Torque Nm/In-lbs	Max Turns	Price
S5010MT-6-14	24VAC/DC	On Off	720 seconds	50Nm/ 442in-lbs	15	POA
S5010MT-5-14	95-265VAC	On Off	720 seconds	50Nm/ 442in-lbs	15	POA
S5019MT-6-14	24VAC/DC	On Off Hi Speed	300 Seconds	50Nm/ 442in-lbs	15	POA
S5019MT-5-14	95-265VAC	On Off Hi Speed	300 Seconds	50Nm/ 442in-lbs	15	POA
S5025MT-6-14	24VAC/DC	Modulating 4-20mA	720 Seconds	50Nm/ 442in-lbs	15	POA
S5025MT-5-14	95-265VAC	Modulating 4-20mA	720 Seconds	50Nm/ 442in-lbs	15	POA
S5029MT-6-14	24VAC/DC	Modulating Hi Speed 4-20mA	300 Seconds	50Nm/ 442in-lbs	15	POA
S5029MT-5-14	95-265VAC	Modulating Hi Speed 4-20mA	300 Seconds	50Nm/ 442in-lbs	15	POA

Series 110 Multi Turn actuators: F05/07 x 17mm Output drive to ISO 5211 - *note that run times without load*

Part Number	Voltage	Function	Speed 0-7200°	Torque Nm/In-lbs	Max Turns	Price
S11010MT-6-14	24VAC/DC	On Off	800 seconds	110Nm/ 973 in-lbs	20	POA
S11010MT-5-14	95-265VAC	On Off	800 seconds	110Nm/ 973 in-lbs	20	POA
S11019MT-6-14	24VAC/DC	On Off Hi Speed	480 Seconds	110Nm/ 973 in-lbs	20	POA
S11019MT-5-14	95-265VAC	On Off Hi Speed	480 Seconds	110Nm/ 973 in-lbs	20	POA
S11025MT-6-14	24VAC/DC	Modulating 4-20mA	800 Seconds	110Nm/ 973 in-lbs	20	POA
S11025MT-5-14	95-265VAC	Modulating 4-20mA	800 Seconds	110Nm/ 973 in-lbs	20	POA
S11029MT-6-14	24VAC/DC	Modulating Hi Speed 4-20mA	480 Seconds	110Nm/ 973 in-lbs	20	POA
S11029MT-5-14	95-265VAC	Modulating Hi Speed 4-20mA	480 Seconds	110Nm/ 973 in-lbs	20	POA