

Rotary Torque Transducers – CheckStar Multi



Compatible with
IQVu, IQVu-2

Rotating torque sensor with tri-colour light ring and high resolution angle encoder

The CheckStar Multi is the latest generation of Crane Electronics market leading CheckStar in line rotary torque transducer. It raises the standard for dynamic torque and angle measurement of all continuous drive and impulse tools, with proven reliable performance in thousands of applications worldwide.

The CheckStar Multi fits in-line between the assembly tool and the fastener, measuring the actual torques applied and angular rotation of the fastener, under production conditions. If angle is specified, the CheckStar Multi rotary torque transducer will include an angle encoder giving 0.125° resolution (720 PPR). It also incorporates a light ring, giving the user visual feedback of the status of a tightening, when used with a Crane readout or data collector.

Whatever the vibration and shock loads experienced, CheckStar Multi's patented contact system ensures a connection is always maintained between the readout and the strain gauges. Inferior systems suffer from "brush bounce" that leads to unreliable torque readings.

The low inertia design of the CheckStar Multi ensures accurate and repeatable measurement of high speed transients, such as the point of shut-off on continuous drive tools and the pulsing of impulse tools.

Using on-board intelligence the CheckStar Multi is automatically recognised by a Crane data collector or readout device, eliminating set-up errors and enabling logging of serial number against measurements for complete traceability.

The CheckStar Multi can also be used where a user needs the advanced features of the transducer but already has a data collector or readout device from another manufacturer.

- ▶ Measurement accuracy $\pm 0.25\%$ of capacity (right/left).
- ▶ High-resolution angle encoder (0,125°)
- ▶ Zero stability $< \pm 0,1\%$ FSD/°C.
- ▶ Patented slip ring contact system prevents „brush bounce“.
- ▶ Suitable for all continuously rotating tools, impulse tools and torque wrenches.
- ▶ Compatible with most industry standard measuring devices.
- ▶ Auto-Ident on Crane data collectors.
- ▶ Easily visible light ring showing status in three colors (in conjunction with IQVu).
- ▶ Rugged and durable construction, aluminum housing, stainless steel shaft.
- ▶ Ingress Protection IP40.
- ▶ Traceable factory calibration certificate.
- ▶ Output interface acc. to MIL-C-26482 / BS 9522 - F0017, type 14-19S.
- ▶ Connection to the measuring device optionally via optional signal cable or via optional RFm radio module*.



Compatible with
TorqueStar Plus/Pro



Compatible with
TorqueStar Lite



Compatible with
Table Top Joint Kits

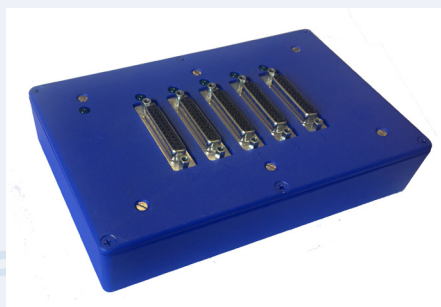
Optional Accs

INFO

- C718620 = RFm* radio module (for CheckStar Multi only)
- C718259 = Signal cable D-Sub 25
- C718321 = 5-way Auto T-Switch



Img.: RFm

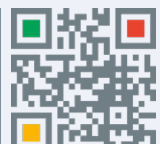


Img. left: Optional Auto Transducer Switch 5-way sensor switch for Crane UTA or Multi sensors. An LED indicates the currently active transducer. The connected Crane meter then suggests the most suitable sensor.

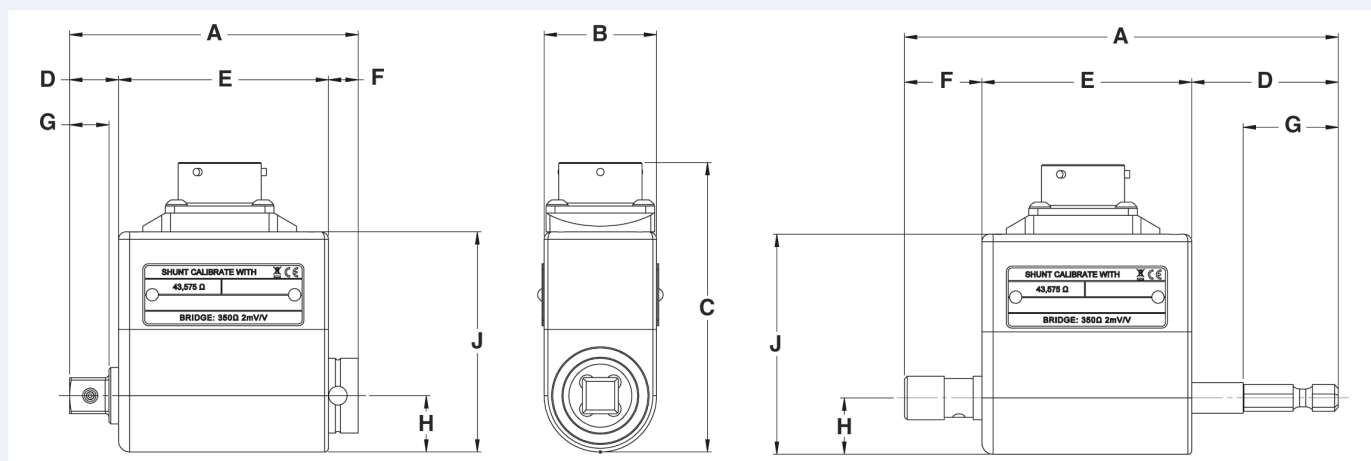


Img. left: CheckStar Multi with radio module „RFm“ for wireless communication with the measuring device.

- RF 2.4 GHz (GFSK)
- Buffer memory for 200 readings
- Li-Ion battery 3.7 V
- Protection IP40

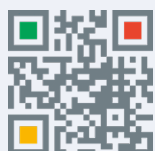


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Model	Item No.	Torque Range N·m	Angle	Dimensions (mm)									Hx	Sq	Weight
				A	B	C	D	E	F	G	H	J	inch		kg
w/o angle	CMHAX-0001-CRXXXX	0.1 - 1	–	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0002-CRXXXX	0.2 - 2	–	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0005-CRXXXX	0.5 - 5	–	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0010-CRXXXX	1 - 10	–	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0020-CRXXXX	2 - 20	–	116	30	73	39	56	21	26	13	55	1/4	–	0.21
with angle enc.	CMHAX-0001-CRXAXX	0.1 - 1	•	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0002-CRXAXX	0.2 - 2	•	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0005-CRXAXX	0.5 - 5	•	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0010-CRXAXX	1 - 10	•	116	30	73	39	56	21	26	13	55	1/4	–	0.21
	CMHAX-0020-CRXAXX	2 - 20	•	116	30	73	39	56	21	26	13	55	1/4	–	0.21
w/o angle	CMSAX-0005-CRPXXX	0.5 - 5	–	72	30	73	10	56	5	7	13	55	–	1/4	0.20
	CMSAX-0010-CRPXXX	1 - 10	–	72	30	73	10	56	5	7	13	55	–	1/4	0.20
	CMSAX-0020-CRPXXX	2 - 20	–	72	30	73	10	56	5	7	13	55	–	1/4	0.20
	CMSBX-0025-CRPXXX	2.5 - 25	–	77	30	77	13	56	8	11	15	59	–	3/8	0.24
	CMSBX-0050-CRPXXX	5 - 50	–	77	30	77	13	56	8	11	15	59	–	3/8	0.24
	CMSBX-0075-CRPXXX	7.5 - 75	–	77	30	77	13	56	8	11	15	59	–	3/8	0.24
	CMSCX-0100-CRPXXX	10 - 100	–	87	42	88	17	58	12	15	21	70	–	1/2	0.43
	CMSCX-0180-CRPXXX	18 - 180	–	87	42	88	17	58	12	15	21	70	–	1/2	0.43
	CMSCX-0250-CRPXXX	new 25 - 250	–	87	42	88	17	58	12	15	21	70	–	1/2	0.43
	CMSDX-0250-CRPXXX	25 - 250	–	106	52	99	25	60	21	21	26	80	–	3/4	0.76
	CMSDX-0500-CRPXXX	50 - 500	–	106	52	99	25	60	21	21	26	80	–	3/4	0.76
	CMSFX-0750-CRPXXX	75 - 750	–	125	63	110	32	65	29	26	32	92	–	1	1.50
	CMSFX-1400-CRPXXX	140 - 1400	–	125	63	110	32	65	29	26	32	92	–	1	1.50
	CMMSGX-3000-CRPXXX	300 - 3000	–	181	102	154	44	87	51	39	51	136	–	1.5	5.7
	CMMSGX-5000-CRPXXX	500 - 5000	–	181	102	154	44	87	51	39	51	136	–	1.5	5.7
with angle encoder	CMSAX-0005-CRPAXX	0.5 - 5	•	72	30	73	10	56	5	7	13	55	–	1/4	0.20
	CMSAX-0010-CRPAXX	1 - 10	•	72	30	73	10	56	5	7	13	55	–	1/4	0.20
	CMSAX-0020-CRPAXX	2 - 20	•	72	30	73	10	56	5	7	13	55	–	1/4	0.20
	CMSBX-0025-CRPAXX	2.5 - 25	•	77	30	77	13	56	8	11	15	59	–	3/8	0.24
	CMSBX-0050-CRPAXX	5 - 50	•	77	30	77	13	56	8	11	15	59	–	3/8	0.24
	CMSBX-0075-CRPAXX	7.5 - 75	•	77	30	77	13	56	8	11	15	59	–	3/8	0.24
	CMSCX-0100-CRPAXX	10 - 100	•	87	42	88	17	58	12	15	21	70	–	1/2	0.43
	CMSCX-0180-CRPAXX	18 - 180	•	87	42	88	17	58	12	15	21	70	–	1/2	0.43
	CMSCX-0250-CRPAXX	new 25 - 250	•	87	42	88	17	58	12	15	21	70	–	1/2	0.43
	CMSDX-0250-CRPAXX	25 - 250	•	106	52	99	25	60	21	21	26	80	–	3/4	0.76
	CMSDX-0500-CRPAXX	50 - 500	•	106	52	99	25	60	21	21	26	80	–	3/4	0.76
	CMSFX-0750-CRPAXX	75 - 750	•	125	63	110	32	65	29	26	32	92	–	1	1.50
	CMSFX-1400-CRPAXX	140 - 1400	•	125	63	110	32	65	29	26	32	92	–	1	1.50
	CMMSGX-3000-CRPAXX	300 - 3000	•	181	102	154	44	87	51	39	51	136	–	1.5	5.7
	CMMSGX-5000-CRPAXX	500 - 5000	•	181	102	154	44	87	51	39	51	136	–	1.5	5.7



Further
information
available on
our website
– 24/7.

Note: Various connecting cables are optionally available for connection to measuring instruments of other are optionally available. If required, please contact our technical consultants.

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