

## Torque Pickup DMA



- Non-contact inductive measurement
- Range from 2.5 - 500Nm bidirectional
- Analog output signal from 0.5V...4.5V
- Safety class IP50
- Repeat accuracy  $<\pm 0.1\%$

Styles:		Rated-Torque [Nm]	Max. overload [Nm]	Speed [U/min]
Round shaft	Square shaft	bidirectional (+/-)	bidirectional (+/-)	Round shaft / Square shaft
8.8.22-2.5	8.8.21-2.5	2,5	5	5000 / 1000
8.8.22-5,0	8.8.21-5,0	5,0	10	5000 / 1000
8.8.22-7,5	8.8.21-7,5	7,5	15	5000 / 1000
8.8.22-17,5	8.8.21-17,5	17,5	35	5000 / 1000
8.8.22-75	8.8.21-75	75	150	5000 / 1000
8.8.22-175	8.8.21-175	175	350	5000 / 1000
8.8.22-250	8.8.21-250	250	350	5000 / 1000
8.8.22-500	8.8.21-500	500	750	5000 / 1000

### Design and function:

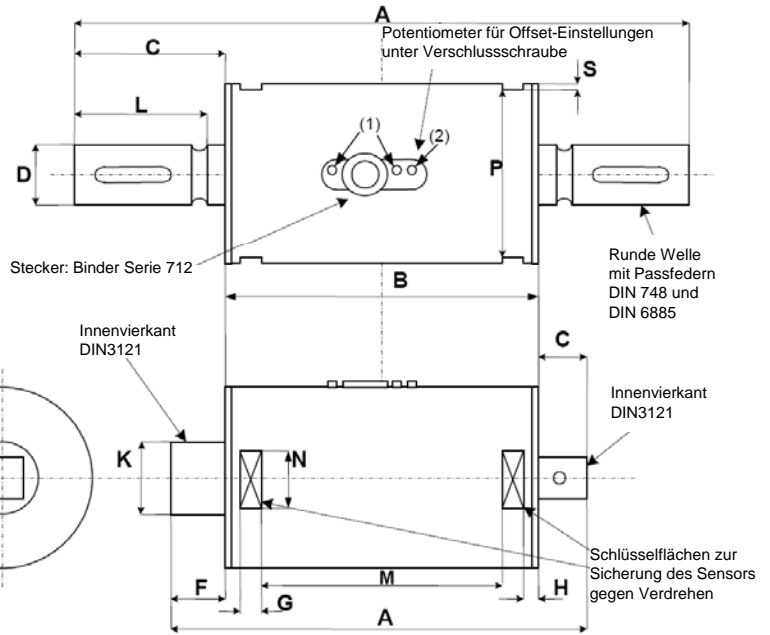
The DMA measures the effective torque on a rotating or standstill shaft bidirectional.

Integrated is the signal transmitting shaft, the non-contact receiving from this shaft, as well as the analog signal formation.

**8.8.22-X**  
(Round shaft)

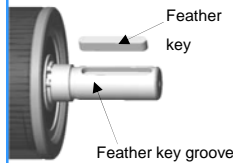
(1) The connecting nut of the connector as well as the fastener screws may not be loosened or pulled up.

(2) Adjustment screw



**8.8.21-X**  
(Square shaft)

**Feather key and feather key groove**  
(for round shafts)



Dimensions feather key groove [mm]				Feather key [mm]	
Round Shaft:	Width	Depth	Length	Height	Length
Ø 9mm	3	1.8	18.5	3	18
Ø 14mm	5	3.0	25.5	5	25
Ø 19mm	6	3.5	45.5	6	45
Ø 25mm	8	4.0	50.5	8	50

**Layouts:**

Square shaft	Nominal torque [Nm]	A	B	C	D	E	F	G	H	K	L	M	N	P	S
1/4 "	2,5 - 5,0 - 7,5 - 17,5	95,5	70	9,5	-	40	16	8	5	12	-	43,9	15	37	1,5
3/8 "	75	107	70	13	-	50	24	8	5	18	-	43,9	18	47	1,5
1/2 "	175-250	123,5	70	18,5	-	50	35	8	5	24	-	43,9	18	47	1,5
3/4 "	500	146	87	29,6	-	60	29,6	10,5	2	33,5	-	61,4	19	47	1,5

Round shaft	Nominal torque [Nm]	A	B	C	D	E	F	G	H	K	L	M	N	P	S
Ø 9 mm	2,5 - 5,0 - 7,5 - 17,5	125	70	27,5	9	40	-	8	5	-	23	43,9	15	37	1,5
3/8 Zoll	75	139	70	34,5	14	50	-	8	5	-	30	43,9	18	47	1,5
1/2 Zoll	175-250	179	70	54,5	19	50	-	8	5	-	50	43,9	18	47	1,5
3/4 Zoll	500	220	87	66,6	25	60	-	10,5	2	-	-	61,4	19	57	1,5

**DMA-Mount:**  
(Order identifier: 8.8.H)

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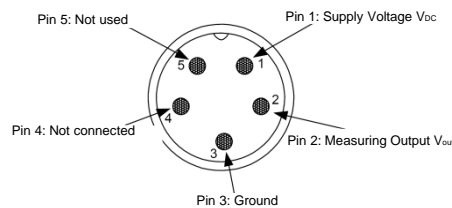
Size	DMA versions [Nm]	A	B	C	D	E	F	G	H	J	K
40 mm	2,5 - 5,0 - 7,5 - 17,5	49,5	43	45	59	33	6	3,2	5	4,5	8
50 mm	75 - 175 - 250	49,5	53	45	59	33	6	3,2	5	4,5	8

**Oder identifier:**

8.8.2X-X  
 |  
 Rated Torque  
 |  
 Round shaft (21) or  
 Square shaft (22)

8.8.H DMA-Mount

**Connector configuration (top view from front):**



Pin	Color	Specification
1	white	Supply Voltage 9 – 12 V <sub>cc</sub>
2	brown	Measuring Out 0,5 – 4,5 V
3	black	Masse GND
4	blue	Not connected
5	grey	Not used