Quick Start Installation Guide for Bearingless Digital Torque Transducers Electrical Connections



BLT

Applicable Models

Quick Start Installation Guide for Bearingless Digital Torque Transducers Mechanical Mounting

SHAFT MISALIGNMENTS

Please select appropriate style of shaft couplings for your desired installation. Couplings will need to accommodate inevitable parallel and/or angular shaft end mis-alignments. Double flex couplings handle both angular and parallel misalignments, single flex couplings only angular.



ROTOR to STATOR ALLOWABLE SPACING

Position the stator so that both Power and Data status LEDs indicate green.



PROXIMITY of METAL COMPONENTS

Installed stationary metal parts must have at least 1 inch (25.4 mm) clearance to the rotating antenna. Rotating parts need to be spaced at least 0.1 inch (2.54 mm) from the stator housing.

Acceptable





Unacceptable



Notes:

1. Use alloy steel socket head cap screws with tensile strength \geq 170,000 psi (1,200 Mpa). 2. Apply anti-seize compound to fastener threads prior to assembly.

3. Mating flanges must be clean and free of grease.

MECHANICAL MOUNTING Recommended mounting	MCRT® Series	Hi Strength Socket Head Cap Screws	Tightening Torque	
			Lbf-ft	N-m
arrangements as shown. Use alloy steel socket head cap screws for attachment to mating flanges tightened to the appropriate torque values.	80001	M4 – 17.4	3.4	4.6
	82	1/4 - 20	17	23
	84	7/16 - 14	100	135
	87	3/4 - 10	500	675
	88	7/8 - 9	700	950
	818	M20 – 2.5	480	650
	89	1 1/4 - 7	2,080	2,820
	8 10	1 1/2 - 6	3 600	4 880

Applicable Models MCRT® 84000V Series MCRT[®] 85000V Series MCRT® 86000V Series

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MCRT® 86100V Series MCRT® 87000V Series MCRT® 80001V Series MCRT® 81008V Series MCRT® 81708V Series MCRT® 84700V Series MCRT® 88700V Series

RIGID and DOUBLE FLEX

Rigid coupling on one side and a double flex coupling on the opposite side. This installation requires more care to control the axial and radial runout at the double flex coupling side to minimize potential for vibration.



SINGLE FLEX BOTH SIDES

Single flex couplings on both sides to accommodate angular misalignments.



For Complete Installation Guide download from:

