

A Curtiss-Wright Company

The **Penny+Giles ICT080 Contactless In-Cylinder Linear Transducer** has been specifically designed for small bore mobile and static hydro-pneumatic actuators.

Designed primarily for the off-highway markets, the ICT080 linear transducer provides reliable, fit-and-forget position sensing of the cylinder rod in actuators with strokes up to 1000mm, with a body diameter of only 8mm.

It is a robust, non-contact transducer suitable for the harsh conditions of lifting and steering position applications and hydropneumatic active suspension systems. It works on an inductive coil principle, with virtually infinite resolution and is capable of withstanding temperatures down to -55°C and up to 200°C, with working pressures up to 670Bar (10,000psi).



ICT080 IN-CYLINDER LINEAR TRANSDUCER

www.pennyandgiles.com

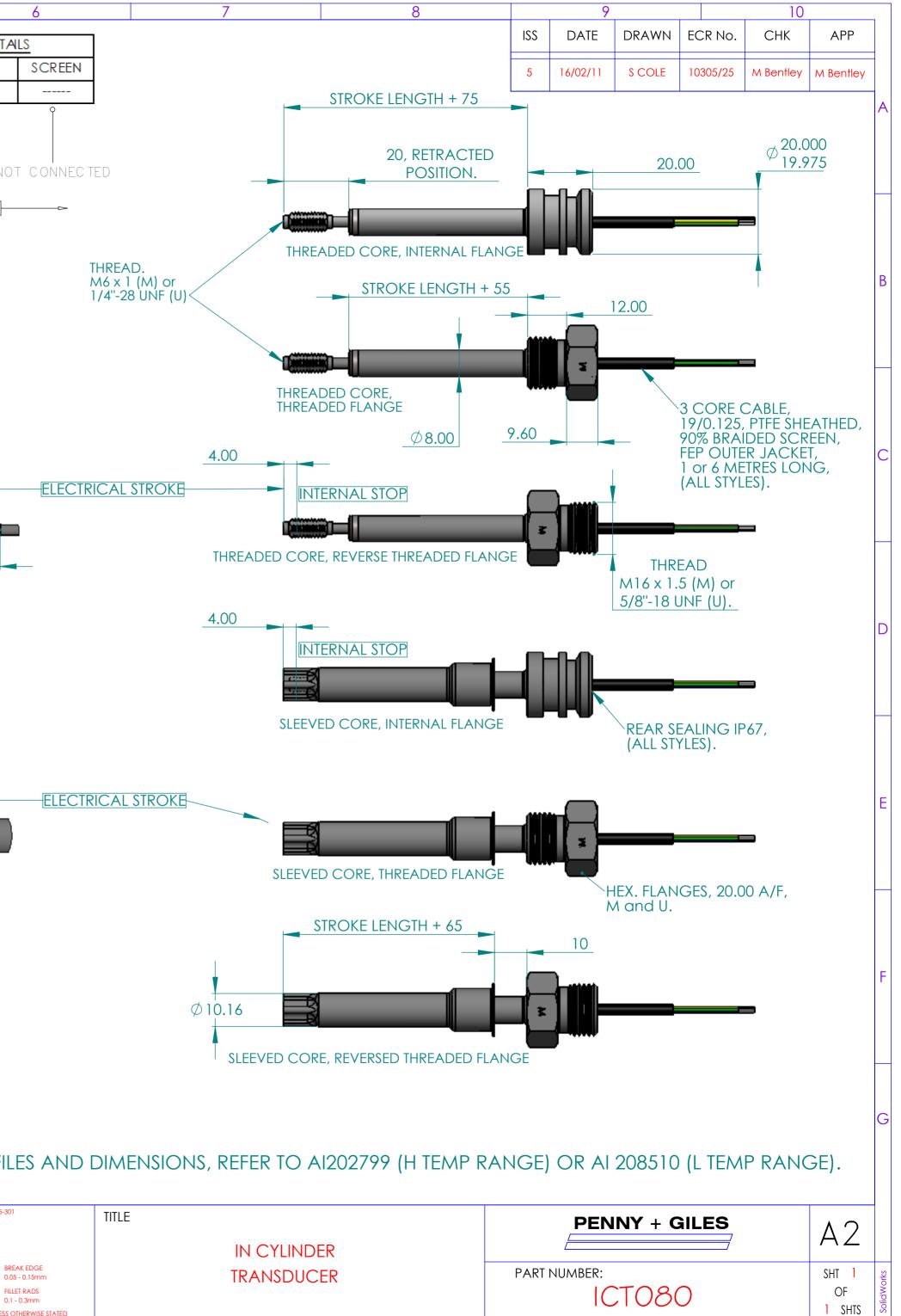
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Innovation In Motion

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		ETRIC					SCHE				ALLS
	IF IN DOUBT ASK SPECIFICATION					SCHEMATIC AND CONNECTION DETAILS IDENTIFICATION CASE COIL COIL SCREI					
	ELECTRICAL STR	ROKELENGTH		īmm INCREMENTS)		COLOUR		EEN	YELLOW	BLUE	
A	TEMPERATURE TEMPERATURE	RANGE (OPERATINC RANGE (STORAGE)_ PERFORMANCE	210mm TO 1000mm (I <u>SEE ORDERING CODE</u> <u>55°C TO +200°C</u> < ± 100ppm OF ELECT			ų		ASE			
В	notes 1. stroke len	G PRESSURE SISTANCE ONDING RESISTANC GTH SPECIFIED BY (< ± 300ppm OFELECT SEE ORDERING CODE INFINITE 670 BAR YELLOW/ BLUE TO CAS SCREEN TO CASE 	RCAL STROKE/°C (-20°C T E >50 MΩ @50 Vdc >50 MΩ @50 Vdc NGTH IN METRES)Ω, e.g. 20	O +200°C))MCABLE = 1+ (0.08×20) = 2						D
С	MODULE. 3. ELECTRONK <u>PROGRAMMIN</u> EACH TRANSDI MODULE IS PLL IT IS IMPORTAN	C MODULES ARE OR I <u>G MODULE</u> JCER IS SUPPLIED W JGGED INTO THE REG T THE TRANSDUCER R LENGTH MODULE	2DERED SEPARATELY, SEE APPROP ATH A SENSOR LENGTH MODULE C QUIRED 'EICT' ELECTRONIC MODU STROKE LENGTH AND THE SENSOR SA203230/200 ICTOBD/EM/T/200/01 ORDERING CODE TH	RATE Penny & Giles DATA ALIBRATED TO MATCH THE JLE MA MATING CONNEC LENGTH MODULE STROKE	SHEET (S) ELE CTRICAL STROKE LENGTH TORS.						
					1						ELE
	EU = EXTER RM = RE√ER	<u>FION</u> INAL METRIC FLAI INAL UNIFIED FLA RSED THREADED I RSED THREADED I	NGE NGE METRIC FLANGE				LIMIT 28.C			15	
D	SC = SLEEV TU = THREA										
		ALLY LESS THAN ±	±0.2% TOTAL STROKE, ±0.25% ±0.4% TOTAL STROKE, ±0.50%								
E	TEMPERATURE RANGE (OPERATING) H = -20°C TO + 200°C L = -55°C TO + 120°C				CABLE OPTION 01 = 1.0m CA 06 = 6.0m CA	BLE 🦰	Maximu Limit 28.		R EXTENSIC		ELE
			ORDERING CODE INT	<u>ERNAL FLANGE</u>							
			ICT 080		/						
F	<u>Flange opt</u> In = Intern	AL FLANGE -	101000/		_/						
	CORE OPTION SC = SLEEVED CORE TM = THREADED CORE METRIC TU = THREADED CORE UNIFIED STROKE LENGTH IN mm										
G	<u>LINEARITY</u> A = TYPICA B = TYPICA	ALLY LESS TH AN ±C	0.2% TOTAL STROKE, ±0.25% M 0.4% TOTAL STROKE, ±0.50% M								
	TEMPERATURE RANGE (OPERATING) 0 H = -20°C TO +200°C 0 L = -55°C TO +120°C 0					le F	or suga	Gestei) fitting	; PROFI	les an
	SCALE UNLESS STATED	ARI SUBJ STAT	CONTROL DIMENSIONS (Kc) E SPECIFIED THEY ARE TO BE ECT TO 100% INSPECTION OR IISTICAL PROCESS CONTROL.	D No.		STAINLESS STEEL		SURFACE TE TO BS1134:P ALL SCREW T EXTERNAL C	S: IN-LINE WITH PENNY & C STURE VALUES IN MICROM T2. ALL MACHINED SURFA THREADS TO BS3643 PT.2: 'LASS: 6g INTERNAL CLAS	IETRES (µm) CES TO BE	
	THIRD ANGLE PROJECTION TO BS 8888	MASS (g)	VOL. (mm ³)	REF.	FINISH	CLEAN		ANGULAR + 1º	LINEAR (MAC 0, mm +/-0.5 m 0,0 mm +/- 0,2 m 0,00mm +/- 0,1 m 0,000mm +/- 0,1 m	nm (nm I Im (nm (BREAK EDGE 0.05 - 0.15mm FILLET RADS 0.1 - 0.3mm S OTHERWISE STATED



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