			1 2	3		4	5		6
	SHIFT GATE CONFIGURATIONS (RIGHT HAND)					ASSEMBLY PA	RT NUMBERS		
A 	ות					CONFIGURATION	PCS PART NUMBER		
						FNR - RH	IES2030		
						FNR - LH IES2031	IES2031		\rightarrow
						DNR - RH	IES2032){
						DNR - LH	LH IES2033		
					-	RNF (EUROPE) - RH	IES2034	4.38 —	
						RNF (EUROPE) - LH	IES2035	4.50	
						RND1 - RH	IES2040		
		OP VIEW	TOP VIEW TOP VIEW	EW TOP VIEW		RND21 - RH	IES2050		
		R / DNR GAT SCALE: 1:4	E RND1 GATE RND21 G. SCALE: 1:4 SCALE:	ATE RNF (EUROPE) GATE 1:4 SCALE: 1:4	Ξ	* SEE NOTES 6 AND 7.		-	
		50ALE. 1.4	SCALE. 1.4 SCALE.	1.4 SCALE: 1.4					
В					1				K
	INDUSTRIAL ELECTRONIC SHIFTER PINOUT							(/
	PIN	NAME	DESCRIPTION	TYPICAL APPLICATION					
_	1	1 RELAY 1 SOLID STATE RELAY, 10A MAX (SEE NOTE 8)		NEUTRAL SAFETY CIRCUIT			6	2X .50	
	2								
	3	OUTPUT 1	OUTPUT - BATTERY VOLTAGE (HIGH) OR GROUND (LOW). PWM, 1 AMP MAX.	ACTIVE LOW IN NEUTRAL POSITION					
	4	OUTPUT 2	OUTPUT - BATTERY VOLTAGE (HIGH) OR GROUND (LOW). PWM, 1 AMP MAX.	ACTIVE LOW IN REVERSE POSITION	┨ ║╢	12		5.18	
С	5								
	RELAY 2		SOLID STATE RELAY, 10A MAX (SEE NOTE 8)	REVERSE / BACKUP LIGHTS	$ \setminus $				
	6	6							
	7	POWER	SWITCHED (IGNITION), 8-32V DC			INTEGRATED RECEPTACLE:	DEUTSCH DT13-12PB		
-	8	GROUND	GROUND	-		DED HARNESS CONNECTOR: DECOMMENDED TPA: DEUTSC		CON5551	
	9	OUTPUT 3	OUTPUT - BATTERY VOLTAGE (HIGH) OR GROUND (LOW). PWM, 1 AMP MAX.	ACTIVE LOW IN FORWARD POSITION		DETAIL V			
	10	10 CAN HI CAN (J1939 OR CONFIGURABLE)		-		CONNEC ⁻			
D	11			-		SCALE: 2:1			FRONT VIEW
	12	INPUT 1	DIGITAL INPUT (CONFIGURABLE)	SHIFT INHIBIT]				GENERAL SCALE: 1:2
	NC	DTES:							

	NOT	<u>ES:</u>									
	1.	THIS DRAWING IS INT	ENDED AS A GEN	IERAL REFERENCE	FOR ANY VEHICLE	E WITH OR INTENDIN	G TO HAVE A PCS "INDL	JSTRIAL			\frown
		ELECTRONIC SHIFTE	R" PACKAGE INCL	LUDING (BUT NOT L	IMITED TO) THE FO	OLLOWING FEATURE	S:				()
		-DIRECT PHYSICAL F	-DIRECT PHYSICAL REPLACEMENT TO THE TRADITIONAL GSE MECHANICAL SHIFTERS.								\bigvee
		-CONFIGURABLE "N	FIGURABLE "NEUTRAL-LOCK" RATED FOR 890N (200LB) KNOB LOA			D DURING "SHIFT-INHIBIT" CONDITIONS.			4X 1/4"-20 TAPPED HOLES.		М
		-DESIGNED AND TES	STED FOR INDUS				1" LONG BOLTS RECOMENDED.				
-		-INGRESS PROTECT	RESS PROTECTION RATING OF IP66.						TORQUE BOLTS TO		
E		-TEMPERATURE RAT	IPERATURE RATING OF -40 TO 85 °C (-40 TO 185 °F). THREADLOCKER RECOMMENDED.								
		-BUILT IN (LED ILLUN	ED ILLUMINATED) RANGE POSITION LIGHTS.								
		-BUILT IN (LED ILLUN	T IN (LED ILLUMINATED) TRANSMISSION DIAGNOSTIC LIGHT (ALSO PROVIDES J1939 DIAGNOSTIC CODES).								
		-BUILT IN NEUTRAL-	SAFETY SWITCH	(RELAY 1, CAN BE	PROGRAMMED FO	R OTHER APPLICATI	ONS).				
		-BUILT IN BACKUP-LIGHT CONTROLLER (RELAY 2, CAN BE PROGRAMMED FOR OTHER APPLICATIONS).									
_		-AVAILABLE FORWA	RD / NEUTRAL / R	EVERSE OUTPUTS	FOR RANGE NOTII	FICATION TO OTHER	VEHICLE SUB-SYSTEMS	S.			
	2.	A PCS GENIII (3) VALVEBODY, PCS TRANSMISSION CONTROLLER, AND PCS APPROVED CALIBRATION ARE REQUIRED TO OPERATE THE 4LHD TRANSMISSION SYSTEM UNDER WARRANTY. CONSULT PCS FOR OTHER TRANSMISSION APPLICATIONS. THE <i>NEUTRAL-LOCK</i> FEATURE WILL PREVENT THE SHIFT LEVER FROM LEAVING <i>NEUTRAL</i> (AND THUS THE TRANSMISSION) DURING UNSAFE SHIFTING								SION	p >>> p
	3.										
		CONDITIONS AND LO	SS-OF-12V-POWE	R. ATTEMPTING TO	BYPASS THIS FEA	ATURE ELECTRONIC	ALLY OR PHYSICALLY WI	ILL VOID TH	HE WARRANTY.		
	4.	THE SYSTEM REQUIRES SWITCHED (IGNITION) 8-32V DC, PROTECTED BY ITS OWN 10A FUSE (RELAYS EXEMPT AND REQUIRE THEIR OWN 10A FUSES).								ISOMETRIC VIEW	
F							RELY FASTENED USING		OVED CONTACT METH	OD.	GENERAL
	5.						THE 1/4-20" MOUNTING H				SCALE: 1:2
	6.	7. REMINDER: RIGHT HAND SETUPS (SUCH AS IES2030) ARE THE MOST COMMON IN GSE VEHICLES.									OGALE. 1.2
	7.									1	
	8.	CONSULT PCS ENGIN	EERING FOR HIG	R HIGHER RELAY CURRENT	ENT APPLICATIONS	PPLICATIONS UP TO 15 AMPS.		Т	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPE		
								R	EPRODUCTION IN PART OR AS	A WHOLE WITHOUT THE WRITTEN P	ERMISSION OF PCS IS PROHIBITED. DIMENSIONS
		1	I	2	I	3	I	4	Ŧ	5	6

