



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

To:	Ian Miles (Active Sensors)		
Cc:	Charlie Whiting (FIA), Alan Prudom (FIA), Simon Busby (FIA), Andy Leitch (FIA)		
From:	Olivier Hulot (FIA)		
Date:	3 rd February 2010	Pages:	6
Subject:	Homologation of Active Sensors components for the FIA Standard ECU		

Dear Ian,

The following table provides a list of the Active Sensors components homologated for use with the FIA Standard ECU.

Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Linear position sensor	CLS13XX series linear potentiometer	CLS13	Labelled on the sensor body: CLS13 D40XXX-XXX rev X	This component covers the CLS13XX series, including: CLS1322-XXX Standard product. CLS1312-XXX Standard product (Based on the CLS1322-XXX, but with Ø3 rod ends, shorter slider block and front bearing. The sensor works the same way as the CLS1322-XXX). Variations within the series include: 1. Specific stroke length. 2. Single or parallel track (i.e. two windings rather than one). 3. Different rod ends. 4. Specific retracted mounting distance. 5. Body clamp version. 6. Sprung loaded shaft.	B	CLS1310 series datasheet and mechanical outline. CLS1320 series datasheet and mechanical outline. Sensor specification (with FIA information) for CLS13XX-XXX & D40XXX series. GA drawing with part number labelling indication.	CLS1322-050 serial 04070459 received on 08/11/2007
Linear position sensor	CLS13XX series linear potentiometer with filter board	CLS13	Labelled on the sensor body: CLS13 D40XXX-XXX rev X D40234-030 D40239-060	This is the same as CLS13XXX but has an integrated 2nd order 60Hz Butterworth low pass filter.	C	General assembly drawings. Electrical schematics.	Refer to CLS13 series sample (without filter).



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Linear position sensor	CLS10XX series linear potentiometer	CLS10	Labelled on the sensor body: CLS10 D40XXX-XXX rev X	This component covers the CLS10XX potentiometer series, including: CLS1021-XXX Standard product. Body clamped version CLS1022-XXX Standard product. With Ø3 rod ends Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Body clamp version. 4. Sprung loaded shaft.	C	General assembly drawings. Parts lists. Drawings and datasheets for: D40065	Not required
Linear position sensor	CLS095X series linear potentiometer	CLS095	Labelled on the sensor body: CLS095 D40XXX-XXX rev X	This component covers the CLS095X potentiometer series, including: CLS0951-XXX Standard product. Body clamped version with right angle cable exit CLS0952-XXX Standard product. With Ø3 rod ends CLS0953-XXX Standard product. Sprung loaded CLS0957-XXX Standard product. Body clamped version with rear cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Body clamp version. 4. Sprung loaded shaft.	C	General assembly drawings. Parts lists. Drawings and datasheets for: D40211	Not required
Linear position sensor	LVDT 0600 series Linear variable differential transformer	LT0600	Labelled on the sensor body: LT0607-XXX LT0617-XXX LT06 D41XXX-XXX	This component covers the LT060X LVDT series, including: LT0607-XXX Standard product. Body clamped version with rear cable exit LT0617-XXX Standard product. Mounting flange version with rear cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Case mounting designs 4. Shaft flange 5. Four and five wire device	B	General assembly drawings. Parts lists. Drawings and datasheets for: LT0607 LT0617	Refer to sample received for LT08 series.



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Linear position sensor	LVDT 0800 series Linear variable differential transformer	LT0800	Labelled on the sensor body: LT08 D41XXX-XXX	This component covers the LT080X LVDT series, including: LT0800-XXX Standard product. Body clamped version with rear cable exit LT0801-XXX Standard product. Body clamped version with right angle cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Case mounting designs 4. Shaft flange 5. Four and five wire device	B	General assembly drawings. Parts lists. Drawings and datasheets for: D41208 D41145	LVDT D41145-013 Rev2 Shaft and core bearing assembly received on 04/02/2008
Linear position sensor	LVDT 0950 series Linear variable differential transformer	LT0950	Labelled on the sensor body: LT095 D41XXX-XXX	This component covers the LT095X LVDT series, including: LT0951-XXX Standard product. Body clamped version with right angle cable exit LT0952-XXX Standard product. With Ø3 rod ends LT0957-XXX Standard product. Body clamped version with rear cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Case mounting designs 4. Shaft flange 5. Four and five wire device	B	General assembly drawings. Parts lists. Drawings and datasheets for: D41194	LVDT 0951-025MM received on 04/02/2008



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Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Linear position sensor	LVDT 1300 series Linear variable differential transformer	LT1300	Labelled on the sensor body: LT13 D41XXX	This component covers the LT13XX LVDT series, including: LT1321-XXX Standard product. Body clamped version with right angle cable exit LT1322-XXX Standard product. With Ø3 or Ø5 rod ends LT1327-XXX Standard product. Body clamped version with rear cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Case mounting designs 4. Shaft flange 5. Four and five wire device	C	General assembly drawings. Parts lists. Drawings and datasheets for: D41152	Refer to LT0950 series sample.
Linear position sensor	XLT 0950 series LVIT – Linear Variable Inductive Transducer with integrated or separate signal conditioning	XLT0950	Labelled on the sensor body: XLT0950 D44XXX-XXX rev X D44241-020 D44228-060	This component covers the XLT095X series, including: XLT0951-XXX Standard product. Body clamped version with right angle cable exit XLT0952-XXX Standard product. With Ø3 rod ends XLT0956-XXX Standard product. Body clamped version with rear cable exit XLT0957-XXX Standard product. Mounting flange version rear cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Case mounting designs 4. Shaft flange 5. Integrated or separate signal conditioning	B	General assembly drawings. Parts lists. Drawings and datasheets for: D44241 D44228	Refer to sample for XLT13 series.



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Linear position sensor	XLT 1300 series LVIT – Linear Variable Inductive Transducer with integrated or separate signal conditioning	XLT13	Labelled on the sensor body: XLT1300 D44XXX-XXX rev X D44221-060 D44162-060	This component covers the XLT132X series, including: XLT1321-XXX Standard product. Body clamped version with right angle cable exit XLT1322-XXX Standard product. With Ø5 rod ends XLT1327-XXX Standard product. Body clamped version with rear cable exit Variations within the series include: 1. Specific stroke length. 2. Specific retracted mounting distance. 3. Case mounting designs 4. Shaft flange 5. Integrated or separate signal conditioning	B	General assembly drawings. Parts lists. Drawings and datasheets for: D44162 D44221	D44221-060 rev1 serial No 05080303 received on 18/03/2009
LVDT conditioning	SCU31X1 series	SCU31X1	Labelled on the sensor body: SCU31X1	Designed to drive an LVDT/RVDT AC device from a DC supply. There are two versions: SCU3111 5v DC and converts the returning AC signal to a 0.5 – 4.5 Volt DC signal proportional to position. SCU3121 8-30v and converts the returning AC signal to a 0 – 4.096 Volt DC signal proportional to position.	A	General assembly drawings. Electrical schematics. Pinout.	Sample SCU3121 received on 21/08/2009
Rotary position sensor	HR6320-XXX series rotary hall effect	HR6320	Etched on the sensor body: HR6320 D30131 D30113 D42023 HRD46246 HRD46247	This component covers the HR6320 series rotary hall effect sensors. Variations within the series include: 1. Measurement angle. 2. Case and sensor mounting arrangement. 3. External shaft design.	B	General assembly drawing. Circuit diagram. Parts list. Drawings and datasheets for: D30131 D30113 D42023 HR6320 HRD46246 HRD46247	HR6320-045 received on 08/01/2008



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Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Rotary position sensor	RP09 series rotary potentiometer	RP09	Labelled on the sensor body: RP09 followed by: D42202 D42206 D42161 D42014 D42185 D42153 D42154 D42217 DC42244 DC42245	This component covers the RP09 series rotary potentiometers. Variations within the series include: 1. Single (RP091A) or dual track (RP092A) 2. Electrical angles. 3. External part of shaft to meet customer interface. 4. External case to meet customer-mounting arrangement. 5. A cable attached and a potted cable housing.	B	General assembly drawings. Parts lists. Drawings and datasheets for: D42161 D42202 RP0911 RP0913 RP0921 RP0922 D42217 DC42244 DC42245	RP0923-350 twin track received on 08/01/2008
Rotary position sensor	RP50 series rotary potentiometer	RP50	Labelled on the sensor body: RP50 followed by: D30084	This component covers the RP50 series rotary potentiometers. Variations within the series include: 1. Single (RP51,RP52) or dual track (RP54) 2. Electrical angles. 3. Plastic or aluminium body 4. External part of shaft to meet customer interface. 5. External case to meet customer-mounting arrangement. 6. A cable attached and potted. 7. Sensor can be supplied with rear boot	B	General assembly drawings. Parts lists. Drawings and datasheets for: RP5110 RP5111 RP5120 RP5121 RP5130 RP5131 RP5210 RP5211 RP5220 RP5221 RP5230 RP5231 RP5410 D30084	RP5120-350 received on 14/02/2008

Best regards,

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