



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	<p>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).</p> <p>Variations within the series include:</p> <ol style="list-style-type: none">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).



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Linear position sensor	SLS13XX-1 series linear potentiometer	SLS13	Labelled on the sensor body: SLS13 D40XXX-XXX rev X	This component covers the SLS13XX-1 series, including: SLS1321-1-XXX Standard product. SLS1322-1-XXX Standard product. SLS1323 -1-XXX Standard product. SLS1326 -1-XXX Standard product. Variations within the series include: 1. Specific stroke length. 2. Single track winding 3. Different rod ends. 4. Specific retracted mounting distance. 5. Body clamp version. 6. Sprung loaded shaft.	B	General assembly drawings. Parts lists. Drawings and datasheets for: SLS1322-1-XXX	Not required
Linear position sensor	MLS13XX-1 series linear potentiometer	MLS13	Labelled on the sensor body: MLS13 D40XXX-XXX rev X	This component covers the MLS13XX-1 series, including: MLS1321-1-XXX Standard product. MLS1322-1-XXX Standard product. MLS1326-1-XXX Standard product. Variations within the series include: 1. Specific stroke length. 2 Parallel track winding. 3. Different rod ends. 4. Specific retracted mounting distance. 5. Body clamp version.	B	General assembly drawings. Parts lists. Drawings and datasheets for: MLS1322-1-XXX	Not required
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



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Linear position sensor	CLS095X series linear potentiometer	CLS095	Labelled on the sensor body: CLS095 D40XXX-XXX rev X	<p>This component covers the CLS095X potentiometer series, including:</p> <ul style="list-style-type: none"> 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 <p>Variations within the series include:</p> <ol style="list-style-type: none"> 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	MLS095X series linear potentiometer	MLS095	Labelled on the sensor body: MLS095 D40XXX-XXX rev X	<p>This component covers the MLS095X potentiometer series, including:</p> <ul style="list-style-type: none"> MLS0951-XXX Standard product. Body clamped version with right angle cable exit MLS0952-XXX Standard product. With Ø3 rod ends MLS0953-XXX Standard product. Sprung loaded MLS0957-XXX Standard product. Body clamped version with rear cable exit <p>Variations within the series include:</p> <ol style="list-style-type: none"> 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: MLS0952-XXX	Not required



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
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 6. Input signal frequency/input signal voltage	B	General assembly drawings. Parts lists. Drawings and datasheets for: LT0607 LT0617	Refer to sample received for LT08 series.
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 6. Input signal frequency/input signal voltage	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



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Linear position sensor	LVDT 0950 series Linear variable differential transformer	LT0950	Labelled on the sensor body: LT095 D41XXX-XXX	<p>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</p> <p>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 6. Input signal frequency/input signal voltage</p>	B	General assembly drawings. Parts lists. Drawings and datasheets for: D41194	LVDT 0951-025MM received on 04/02/2008
Linear position sensor	LVDT 1300 series Linear variable differential transformer	LT1300	Labelled on the sensor body: LT13 D41XXX	<p>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</p> <p>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 6. Input signal frequency/input signal voltage</p>	C	General assembly drawings. Parts lists. Drawings and datasheets for: D41152	Refer to LT0950 series sample.



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	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 XLT0955-XXX Standard product. Body clamped version with separate electronics 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 6. Input signal voltage	B	General assembly drawings. Parts lists. Drawings and datasheets for: D44241 D44228	Refer to sample for XLT13 series.
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 6. Input signal voltage	B	General assembly drawings. Parts lists. Drawings and datasheets for: D44162 D44221	D44221-060 rev1 serial No 05080303 received on 18/03/2009
Linear position sensor	LH1011 series linear hall effect or MHL1000 Magni-Hall Linear Series	LH1011 MHL1011 MHL1012	Labelled on the sensor body and actuator body LH1011-XXX-X MHL1011 XV-XX MHL1012 XV-XX MHL D46XXX-XV -XX	This component covers the LH1011 series of linear hall effect sensors and MHL1011 and MHL1012 Magni-Hall Sensors. Variations within the series include: 1. Measurement range. Standard being 20 and 40mm.	A	General assembly drawings. Parts lists. Drawings and datasheets for: LH1011-XXX-X Circuit diagram.	LH1011-040-L Serial No.09100295 received on 14/10/2010



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Linear position sensor	LH1200 series linear hall effect or MHL1200 Magni-Hall Linear Sensor	LH1211 LH1212 LH1222 MHL1211 MHL1212 MHL1222	Labelled on the sensor: LH12XX XV-XX MHL12XX XV-XX MHL D46XXX-XV -XX	This component covers the LH1200 series of linear hall effect sensors and MHL1200 Magni-Hall Sensor Series. Variations within the series include: 1. Measurement range. Standard being 5 and 60mm. 2. Shaft variations i.e. sprung loaded, shaft flanges 3. LH1222 dual output	A	General assembly drawings. Parts lists. Drawings and datasheets for: LH121X XV-XXX, LH1222 XV-XXX, LH D46335 LV-025 Circuit diagram for LH1222.	Refer to sample LH1011
Linear position sensor	LH1300 Series Hall Effect or MHL1300 Magni-Hall Linear Series	LH1311 LH1312 LH1314 LH1322 MHL1321 MHL1322 MHL1326	Label on the sensor body: LH13XX XV-XXX MHL13XX XV-XXX MHL D46XXX-XV -XXX	This component covers the LH1300 series of Linear Hall Effect Sensors and MHL1300 Magni-Hall Sensor Series. Variations within the series include: 1. Measurement range. Standard being 5 - 200mm 2. Different rod ends. 3. Body clamp version. 4. Dual output	A	General assembly drawings. Parts lists. Drawings and datasheets for: D46339 LV-027 LH131X XV-XX, TBC LH1312 XV-XX, TBC LH1314 XV-XX, TBC LH1322 XV-XX, TBC	Refer to sample MHL1322
Linear position sensor	MHL0950 Magni-Hall Linear Sensor	MHL0952 MHL0956	Label on the sensor body: MHL0952 XV-XXX MHL0956 XV-XXX MHLD46XXX-XV -XXX	This component covers the MHL0950 series of Linear Hall Effect Sensors Variations within the series include: 1. Measurement range. Standard being 5 - 150mm 2. Different rod ends. 3. Body clamp version.	A	General assembly drawings. Parts lists. GA Drawing for: MHL0952-XV-XXX MHL0956-XV-XXX Block diagram.	Sample received on 26/06/2013



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
LVDT conditioning	SCU31X1 series SCU3101 EV SCU3201 EV	SCU31X1 SCU3101 EV SCU3201 EV	Labelled on the sensor body: SCU31X1 SCU3101 EV or SCU3101 RV SCU3201 EV or SCU3201 RV SCU D43XXX	Designed to drive an LVDT/RVDT AC device from a DC supply. There are four 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. SCU3101 EV can be driven by either 5vdc or 8 - 30Vdc supply and converts the returning AC signal to a 0.5 - 4.5 Vdc signal proportional to the position. SCU3201 EV can be driven by either 5vdc or 8 - 30Vdc supply and converts the returning AC signal to a 0.5 - 4.5 Vdc signal proportional to the position.	A	General assembly drawings. Electrical schematics. Pinout.	Sample SCU3121 received on 21/08/2009
Rotary position sensor	HR6320-XXX series rotary hall effect or MHR0500 Magni-Hall Rotary Series	HR6320 MHR0510 MHR0520	Etched on the sensor body: HR6320 D30131 MHR05XX XV-XXX MHR05 D46XXX-XV -XXX	This component covers the HR6320 series rotary hall effect sensors and MHR0500 Magni-Hall Series. 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 HR6320	HR6320-045 received on 08/01/2008



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Rotary position sensor	MHR0500 Magni-Hall Rotary Series	MHR0510 MHR0520	Labelled or etched on the sensor body: D46246-030 D46247-030 D46271-045 D30113 D42023 D46520 CV-060 D46521 AV-060 D46475 AV-060 D46476 CV-060 D46536 CV-037 D46537 AV-037	This component covers the MHR0500 series rotary hall effect sensors series. Variations within the series include: 1. Measurement angle. 2. Case and sensor mounting arrangement. 3. External shaft design. 4. Calibrations are locked by the supplier for those sensors used for driver controls.	B	General assembly drawing. Circuit diagram. Parts list. Drawings and datasheets for: D30113 D42023 HRD46246 HRD46247 D46520 CV-060 D46521 AV-060 D46475 AV-060 D46476 CV-060 D46536 CV-037 D46537 AV-037	HR6320-045 received on 08/01/2008
Rotary position sensor	RP09 series rotary potentiometer	RP09	Labelled on the sensor body: RP09	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 DC42282 DC42283 DC42327 DC42345 DC42346	RP0923-350 twin track received on 08/01/2008



Type	Name	Supplier part number	Identification	Description and comments	Category	Documentation	Sample
Rotary position sensor	RP50 series rotary potentiometer	RP50	Labelled on the sensor body: RP50	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
Rotary position sensor	RH09XX / RH5XXX-XXX series dual rotary hall effect or MHR09XX/MHR5XXX Magni-Hall Rotary Series	RH5XXX-XXX RH09XX-XXX MHR09XX MHR5XXX	Label on the sensor body: RH092X-XXX RH54XX-XXX RH56XX-XXX RHD46317-150 MHR09XX XV-XXX MHR5XXX XV-XXX MHR D46XXX-XV -XX	This component covers the RH09, RH54 and RH56 series rotary hall effect sensors and MHR0900/MHR5000 Magni-Hall Series. Variations within the series include: 1. Measurement angle. 2. Case and sensor mounting arrangement. 3. External shaft design.	A	General assembly drawing. Circuit schematic. Parts list. Drawings and datasheets for: RHD46317-150 Circuit diagram.	D46317-150 received on 15/12/2010
Rotary position sensor	RH06XX VX-XXX series single rotary hall effect or MHR06XX Magni-Hall Rotary Series	RH06XX XV-XXX MHR06XX	Label on the sensor body: RH06X XV-XXX RHD46349 CV-034 MHR06XX XV-XXX MHR D46XXX-XV -XX	This component covers the RH06 series rotary hall effect sensors or MHR0600 Magni-Hall Series. Variations within the series include: 1. Measurement angle. 2. Case and sensor mounting arrangement. 3. External shaft design.	A	General assembly drawing. Circuit schematic. Parts list. Drawings and datasheets for: RHD46349 CV-034 Circuit diagram.	Refer to sample RHD46317-150



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Best regards,

A handwritten signature in black ink, appearing to read 'Olivier Hulot', written over a faint horizontal line.

Olivier Hulot
FIA Formula 1 Technical Department