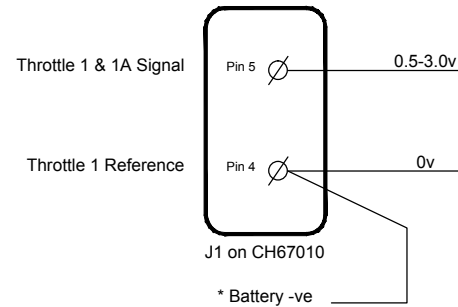


SCANIA  
MODEL # DI 12M

SCANIA  
EMS MODULE  
C91 CONNECTOR

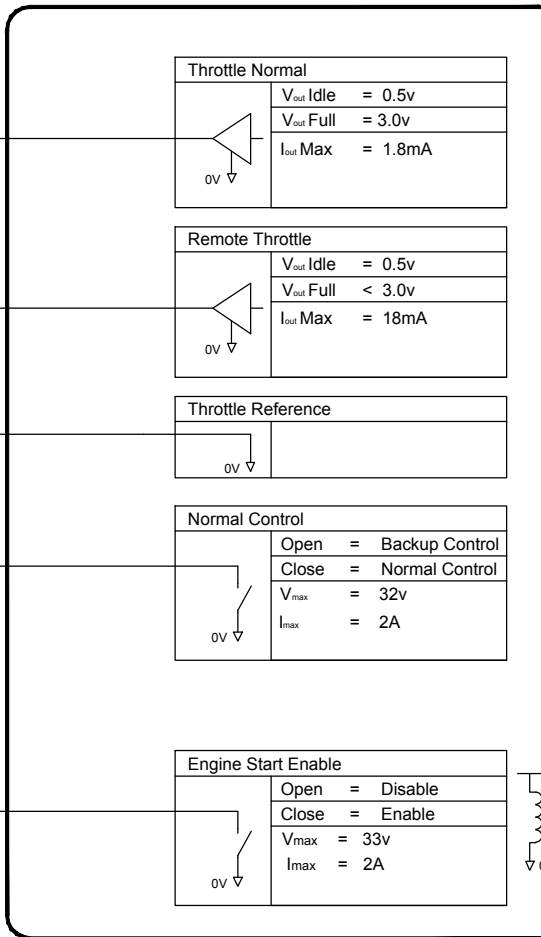


\* Ensure engine ground reference is at the same location as EIM ground reference to avoid voltage drops cause by high current loads such as starter motors

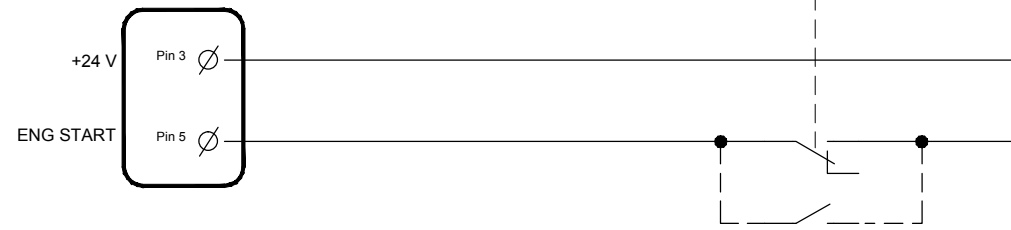
Recommended Relay:  
Gold Contact High Reliability Signal Relay  
Typical:  
IDEC RU4S-D12 RS#813-5110 (12VDC)  
or  
IDEC RU4S-D24 RS#813-5113 (24VDC)  
SOCKET TO SUIT :  
• IDEC SY4S-05C RS#813-5129 (DIN RAIL MOUNT)

Recommended relay:  
Coil ~ 100mA  
Contacts > Starter solenoid rating

blue ARROW  
Engine Interface Module



C128 CONNECTOR



By-pass switch:  
Must be fitted in single jet vessels  
Optional in twin jet vessels

Alternatively an engine start interlock relay with lockable test option can be fitted (e.g. Omron MY2IN relay)



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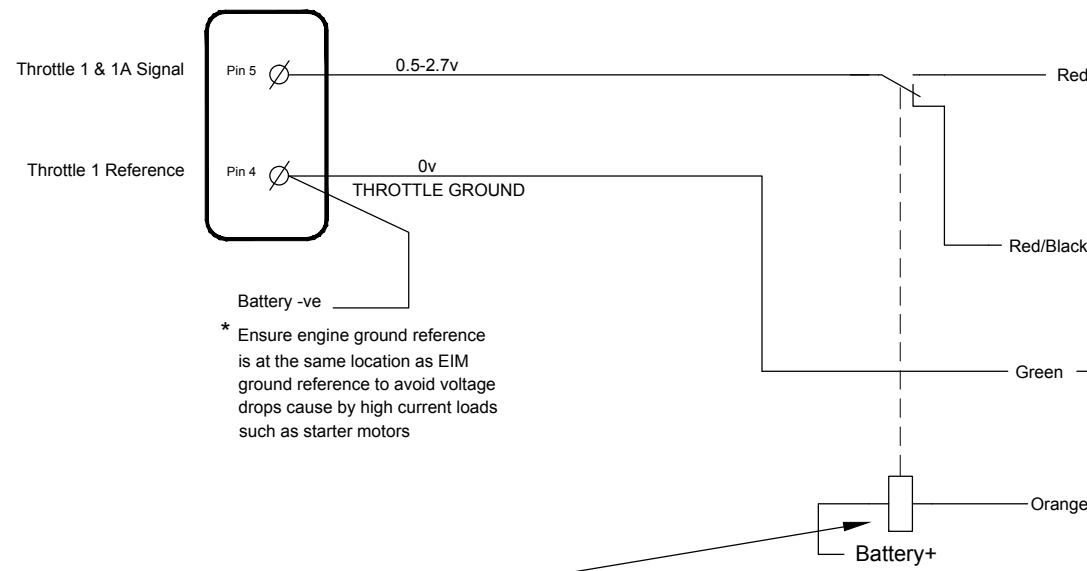
Make	Model	Feedback Type	Demand Type	Min RPM	Max RPM	Volt Min	Volt Max	Eng Dmd Mode	Eng Dmd Low	Eng Dmd High
SCANIA	DI-12M	Jet	Voltage	500 <sup>#</sup>	2100 <sup>#</sup>	5	31	Voltage	1300*	8250*

\* Initial values only. Adjust values during installation to achieve correct level.  
# Engine RPM is affected by specific waterjet selection. If gearbox fitted, adjust to give jet shaft RPM.

CHANGE SUMMARY - REFER TO E.C.N. FOR DETAILS				MANUFACTURING INFORMATION		DRAWING INFORMATION	
REVISION:	<b>E</b>	ECN:	<b>23692</b>	MATERIAL:		<b>blueARROW ENGINE SCHEMA M CONFIGURATION</b>	
SHEET 3 ADDED				STANDARD:			
				MAT CERT REQ:	TRACEABILITY REQ:		
				FINISHED WEIGHT:			
DESIGN CHECK:	<b>A.P.</b>	<b>26.03.15</b>	SIGN:	ALL DIMENSIONS IN [mm] UNLESS OTHERWISE SPECIFIED		JET / CONTROL TYPE	
DRAWING REVISION:	<b>B.D.</b>	<b>26.03.15</b>	SIGN:	REMOVE ALL SHARP EDGES AND BURRS		DRAWN TO HAMJET 085195 PROJECTION:	
DOCUMENT CHECK:	<b>R.T.</b>	<b>26.03.15</b>	SIGN: <i>R. w. Siggins</i>	UNTOLERANCED DIMENSIONS & SURFACE FINISH		SCALE: SHEET SIZE: <b>A3</b> Sht 1 of 3	
ORIGINAL DESIGN:	<b>S.L.</b>	<b>04.08.14</b>	SIGN:	MACHINED SURFACE FINISH:		DWG No: <b>207651</b> REV: <b>E</b>	

SCANIA  
MODEL # DI 16 077M

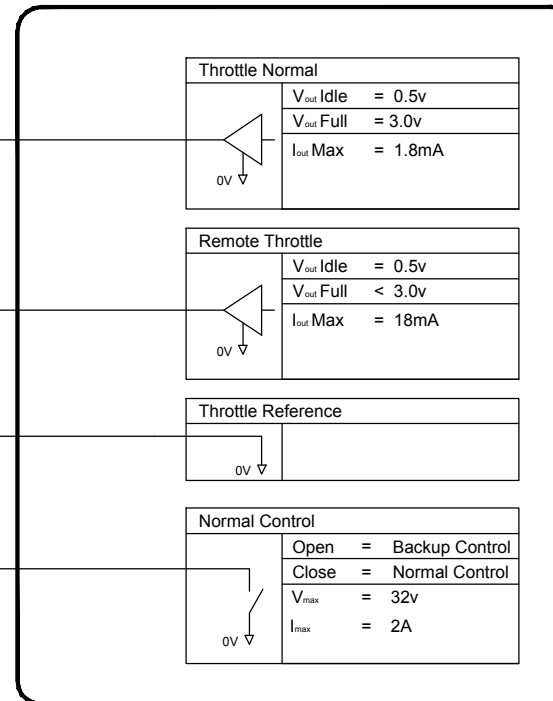
SCANIA  
CONNECTION BOX CO-ORDINATOR  
C4041



\* Ensure engine ground reference is at the same location as EIM ground reference to avoid voltage drops cause by high current loads such as starter motors

Recommended Relay:  
Gold Contact High Reliability Signal Relay  
Typical:  
IDEC RU4S-D12 RS#813-5110 (12VDC)  
or  
IDEC RU4S-D24 RS#813-5113 (24VDC)  
SOCKET TO SUIT :  
• IDEC SY4S-05C RS#813-5129 (DIN RAIL MOUNT)

blue ARROW  
Engine Interface Module

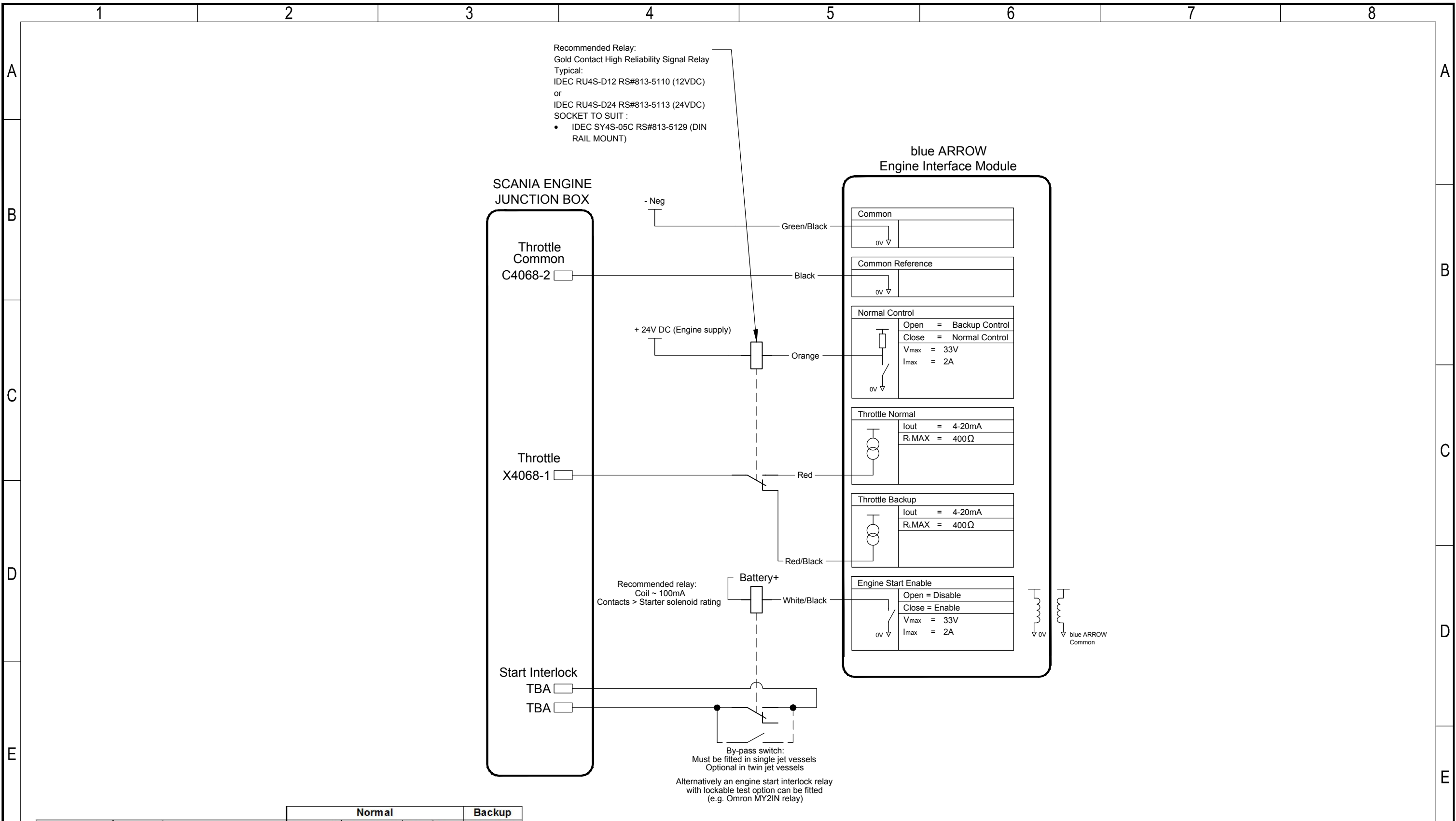


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CHANGE SUMMARY - REFER TO E.C.N. FOR DETAILS			MANUFACTURING INFORMATION		DRAWING INFORMATION	
REVISION:	ECN:		MATERIAL:		<b>blueARROW ENGINE SCHEMA M CONFIGURATION</b>	
SEE SHEET 1 FOR DETAILS			STANDARD:			
			MAT CERT REQ:	TRACEABILITY REQ:		
			FINISHED WEIGHT:			
DESIGN CHECK:		SIGN.	ALL DIMENSIONS IN [mm] UNLESS OTHERWISE SPECIFIED		JET / CONTROL TYPE	
DRAWING REVISION:		SIGN.	REMOVE ALL SHARP EDGES AND BURRS		DRAWN TO HAMJET 085195 PROJECTION:	
DOCUMENT CHECK:		SIGN.	UNTOLERANCED DIMENSIONS & SURFACE FINISH		SCALE: SHEET SIZE: <b>A3</b> Sht 2 of 3	
ORIGINAL DESIGN:		SIGN.	MACHINED SURFACE FINISH:		DWG No: <b>207651</b> REV: <b>E</b>	

Make	Model	Feedback Type	Demand Type	Min RPM	Max RPM	Volt Min	Volt Max	Eng Dmd Mode	Eng Dmd Low	Eng Dmd High
SCANIA	DI 16 077M	Jet	Voltage	500 <sup>#</sup>	2100 <sup>#</sup>	5	27	Voltage	1300*	8250*

\* Initial values only. Adjust values during installation to achive correct level.  
# Engine RPM is affected by specific waterjet selection. If gearbox fitted, adjust to give jet shaft RPM.



Manufacturer	Model	Notes	Normal				Backup
			Demand Type	Feedback Type	Idle RPM	Max RPM	EngDmd Mode
SCANIA		CONNECTIONS MADE AT SCANIA ENGINE ECU JUNCTION BOX	Current	Jet	TBC#	TBC#	Current

Notes

# Enter values set for particular installation. Adjust to give jet shaft RPM

Values not specified to be left at factory defaults

Relays are not in Hamilton's scope of supply

**HamiltonJet**

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CHANGE SUMMARY - REFER TO E.C.N. FOR DETAILS		MANUFACTURING INFORMATION		DRAWING INFORMATION	
REVISION:	ECN:	MATERIAL:		<b>blueARROW</b>	
<b>SEE SHEET 1 FOR DETAILS</b>		STANDARD:		<b>ENGINE SCHEMA M</b>	
DESIGN CHECK:		MAT CERT REQ:	TRACEABILITY REQ:	<b>CONFIGURATION</b>	
DRAWING REVISION:		FINISHED WEIGHT:		JET / CONTROL TYPE	
DOCUMENT CHECK:	<b>R.T 26.03.15</b>	ALL DIMENSIONS IN [mm] UNLESS OTHERWISE SPECIFIED		DRAWN TO HAMJET 085195	
ORIGINAL DESIGN:		REMOVE ALL SHARP EDGES AND BURRS		PROJECTION:	
		UNTOLERANCED DIMENSIONS & SURFACE FINISH		SCALE:	SHEET SIZE: <b>A3</b>
		GENERAL: HOLES: ANGULAR:		DWG No: <b>207651</b>	REV: <b>E</b>
		MACHINED SURFACE FINISH:		Sht 3 of 3	