

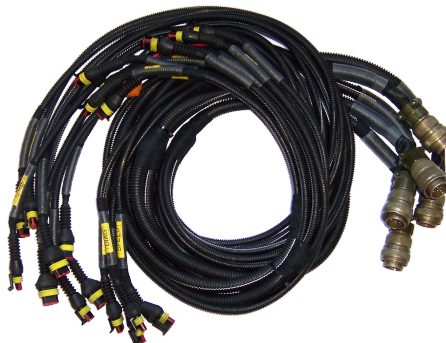


## FENIX PLATFORM

### Fenix - ECU



### Universal Cable



### Cable Adapters



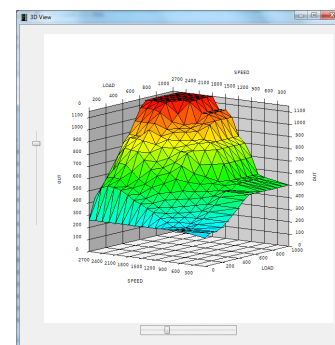
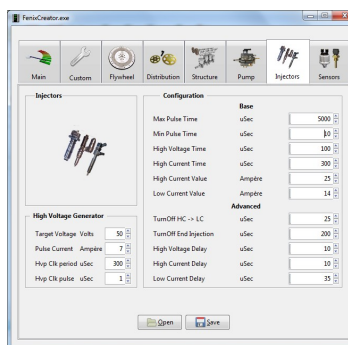
### Accessories



### Engine Sensors



## Control Software





## PRESENTATION

**FENIX Diesel** is the first universal ECU for the new generation of diesel engines, born from the LINSYS's experience into the development of ECU simulators for testing on testbench.

It can be used on Common Rail engines and/or on engines with Unit Pump System and/or Unit Injector System.

Finally you can change the destination of use of modern diesel engines for example from a truck to an industrial application.



## Some technical informations

Battery voltage:	automatic 12-24 Volts
Injectors:	up to 8 type inductive: CR, UIS/PDE, UPS
PWM drivers:	2 (for regulators CP1, CP2, CP3)
Position sensors:	2 (pick-up, hall)
Analog inputs:	4 (press. rail, press. oil, temp. water, temp. oil)
Control:	LOAD (pedal), SPEED (by PID), SPEED (by load)
Reference Load/Speed:	PWM, digital (also from PC, see communication)
Communication:	USB, CAN
Maps:	(sensors, advance, injections, power-limit, ...)
Injectors:	unijet, multijet

## Contact

LINSYS Strada Provinciale 2, 12020 Roccabruna (Cuneo) – ITALY  
Tel. +39-0171-904080



### FENIX PLATFORM FLOWCHART

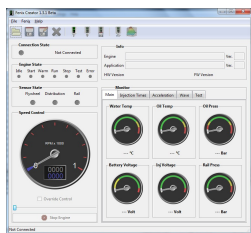
FENIX DIESEL ECU



UNIVERSAL CABLE



CONTROL SOFTWARE



USB



CABLE ADAPTERS



CANBUS



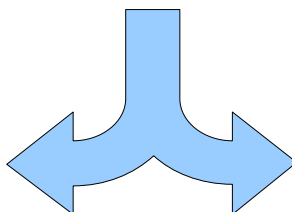
COCKPIT



ENGINE



SENSORS





## Available Engine Configurations

COMPANY	DESCRIPTION	CODE	NOTE
Deutz	4 Cil Line	BF4M1013FC	
Fiat	JTD 4 Cil		
Fiat	JTD 4 Cil 16V - F1A		
Fiat	JTD 4 Cil 16V - PSA		
Fiat	JTD 5 Cil		
Fiat	Multijet 4 Cil		
Fiat	Multijet 5 Cil		
Iveco	Cursor 8	F2BE0681x	
Iveco	Cursor 8	F2BE4683x	
Iveco	Cursor 9	F2CE9684x	
Iveco	Cursor 10	F3AE0681x	
Iveco	Cursor 13	F3BE0681x	
Iveco	Vector		<a href="#">Contact Linsys</a>
Iveco	Tector 4 Cil	F4AE0481x	
Iveco	Tector 6 Cil	F4AE0681C	
Iveco	Tector 6 Cil	F4AE0682C	
Iveco-Sofim	Unijet (C9-C13-C15)	8140.43x	
Iveco-Sofim	Unijet 16V – F1A (2800cc)	F1AE0481x	
Iveco-Sofim	Unijet 16V – F1C (3000cc)	F1CE0481x	
Man 2876	6 Cil Line	2876LV12	<a href="#">Contact Linsys</a>
Man 2876	6 Cil Line	2876LV13	<a href="#">Contact Linsys</a>
Mercedes	Actros 6 Cil V	OM501LAx	
Mercedes	Actros 8 Cil V	OM502LAx	
Mercedes	Axor 6 Cil	OM457LAx	
Mercedes	Atego 4 Cil	OM904LAx	
Mercedes	Atego 6 Cil	OM906LAx	
Mercedes	CDI	OM611.x	
Mercedes	CDI	OM612.x	
Mercedes	CDI	OM646.x	
Volvo	6 Cil Line (FH12)	D12A	<a href="#">Contact Linsys</a>







Renault	G9T-G9U (Master)		
Renault	DCI-4		<a href="#">Contact Linsys</a>
Renault	DCI-6		<a href="#">Contact Linsys</a>
Renault	DCI-11		<a href="#">Contact Linsys</a>
Scania	6 Cil Line	DC11	<a href="#">Contact Linsys</a>
Scania	6 Cil Line	DC12	<a href="#">Contact Linsys</a>
Scania	8 Cil V	DC16	<a href="#">Contact Linsys</a>

We are under constant developement of new engines,if you don't find it here please [contact us](#)



### PRICE LIST







ITEM	DESCRIPTION	CODE	PRICE
	FENIX DIESEL – ELECTRONIC CONTROL UNIT	LY10-001-0	<a href="#">Contact Linsys</a>
	FENIX DIESEL – UNIVERSAL CABLE	LY20-001-0	<a href="#">Contact Linsys</a>
	FENIX CREATOR – CONTROL SOFTWARE	LY30-001-0	<a href="#">Contact Linsys</a>
	FENIX DIAGNOSTIC SOFTWARE	LY30-002-0	<a href="#">Contact Linsys</a>
	FENIX MONITOR SOFTWARE	LY30-003-0	<a href="#">Contact Linsys</a>
	FENIX ENGINE CONFIG DATA CD	LY30-004-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - INJECTORS</b>		
	UPS INJ - MB	LY21-006-0	<a href="#">Contact Linsys</a>
	CR INJ - MB	LY21-018-0	<a href="#">Contact Linsys</a>
	CR INJ - BOSCH	LY21-012-0	<a href="#">Contact Linsys</a>
	CR INJ - IVECO TECTOR	LY21-019-0	<a href="#">Contact Linsys</a>
	PDE INJ - IVECO CURSOR	LY21-020-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - PICK-UP</b>		
	PICK-UP DIST/FLYW - MB	LY21-007-0	<a href="#">Contact Linsys</a>
	PICK-UP DIST/FLYW - BOSCH 2 WAY	LY21-011-0	<a href="#">Contact Linsys</a>
	PICK-UP DIST/FLYW - BOSCH 3 WAY	LY21-022-0	<a href="#">Contact Linsys</a>



ITEM	DESCRIPTION	CODE	PRICE
	PICK-UP DIST/FLYW - AMP TIMER 2 WAY	LY21-021-0	<a href="#">Contact Linsys</a>
	PICK-UP DIST/FLYW - AMP TIMER 3 WAY	LY21-015-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - HALL</b>		
	HALL DIST - BOSCH	LY21-014-0	<a href="#">Contact Linsys</a>
	HALL DIST - MB	LY21-017-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - RAIL SENSOR</b>		
	RAIL SENS - BOSCH	LY21-013-0	<a href="#">Contact Linsys</a>
	RAIL SENS - MB	LY21-016-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - RAIL PUMP REG</b>		
	DRV/MPROP - BOSCH	LY21-012-0	<a href="#">Contact Linsys</a>
	DRV/MPROP - MB	LY21-023-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - ENGINE SENSORS</b>		
	OIL/WAT TEMP - MB	LY21-008-0	<a href="#">Contact Linsys</a>
	OIL/WAT TEMP - AMP	LY21-009-0	<a href="#">Contact Linsys</a>
	OIL PRESS	LY21-010-0	<a href="#">Contact Linsys</a>





ITEM	DESCRIPTION	CODE	PRICE
	<b>CONNECTOR KIT</b>		
	SUPERSEAL MALE 2 WAY	LY21-024-0	<a href="#">Contact Linsys</a>
	SUPERSEAL MALE 3 WAY	LY21-025-0	<a href="#">Contact Linsys</a>
	SUPERSEAL MALE 4 WAY	LY21-026-0	<a href="#">Contact Linsys</a>
	SUPERSEAL FEMALE 2 WAY	LY21-027-0	<a href="#">Contact Linsys</a>
	SUPERSEAL FEMALE 3 WAY	LY21-028-0	<a href="#">Contact Linsys</a>
	SUPERSEAL FEMALE 4 WAY	LY21-029-0	<a href="#">Contact Linsys</a>
	<b>CABLE ADAPTERS - OTHERS</b>		
	CABLE ADAPT USB 3m	LY21-030-0	<a href="#">Contact Linsys</a>
	CABLE PEDAL EXTENSION 2m	LY21-031-0	<a href="#">Contact Linsys</a>
	CABLE PEDAL EXTENSION 3m	LY21-031-1	<a href="#">Contact Linsys</a>
	CABLE PEDAL EXTENSION 4m	LY21-031-2	<a href="#">Contact Linsys</a>
	<b>ACCESSORIES</b>		
	PWM Accelerator Pedal	LY40-001-0	<a href="#">Contact Linsys</a>
	Accelerator Manual	LY40-004-0	<a href="#">Contact Linsys</a>
	Voltage/Potentiometric to PWM adapter	LY10-002-0	<a href="#">Contact Linsys</a>
	Water/Oil Temperature Sensor	LY40-002-0	<a href="#">Contact Linsys</a>
	Oil/ Pressure Sensor	LY40-003-0	<a href="#">Contact Linsys</a>



















## APPLICATION SOLUTIONS EXAMPLE

### IVECO TECTOR 6 Cil

(with pedal in load control mode)

ITEM	DESCRIPTION	CODE	QTY
	FENIX DIESEL – ELECTRONIC CONTROL UNIT	LY10-001-0	1
	FENIX MONITOR SOFTWARE	LY30-003-0	1
	FENIX DIESEL – UNIVERSAL CABLE	LY20-001-0	1
	CR INJ - IVECO TECTOR	LY21-019-0	3
	PICK-UP DIST/FLYW - BOSCH 3 WAY	LY21-022-0	2
	DRV/MPROP - BOSCH	LY21-012-0	1
	RAIL SENS - BOSCH	LY21-013-0	1
	OIL/WAT TEMP - AMP	LY21-009-0	2
	OIL PRESS	LY21-010-0	1
	CABLE PEDAL EXTENSION 2m	LY21-031-0	1
	CABLE ADAPT USB 3m	LY21-030-0	1
	PWM Accelerator Pedal	LY40-001-0	1
	Water/Oil Temperature Sensor	LY40-002-0	2
	Oil/ Pressure Sensor	LY40-003-0	1



## SPECIAL NOTES

1. All prices show without VAT.
2. The company and product names used in this catalog are for identification purposes only.  
All trademarks and registered trademarks are the property of their respective owners.
3. The information provided in this catalog contains only general descriptions or performance characteristics, which do not always apply as described in case of actual use or which may change as a result of further development of the products. This information is merely a technical description of the product. This information is not meant or intended to be a special guarantee for a particular quality or particular durability. We reserve the right to make changes in availability as well as technical changes without prior notice.



## GENERAL SALES CONDITIONS

LINSYS - Strada Provinciale 2, 12020 Roccabruna (Cuneo) – ITALY  
(+39) 0171 904080

[info@linsys.it](mailto:info@linsys.it) [www.linsys.it](http://www.linsys.it)

- 1) **CONFIRMATION OF ORDER AND ACCEPTANCE** – The sale of our products is governed exclusively by these general conditions; any modifications, amendments, exceptions and/or cancellations must be agreed upon exclusively in writing and must be expressly accepted by LINSYS. In particular, in the event of LINSYS receiving any requests for cancellations following the start-up of production, the seller reserves the right to refuse or accept them subject to partial payment of the supply depending on the state of progress of the production itself. Particular conditions (amounts, price, methods of payment, etc.) of individual orders will be those indicated in the individual offers sent by LINSYS; orders will only be accepted if they comply with the offers. These general sales conditions are shown on the back of each offer and order confirmation sent by LINSYS and constitute an integral and essential part of same; likewise, they are posted on the seller's website ([www.linsys.it](http://www.linsys.it)); in compliance with the offer made by LINSYS, the order, even in the event of not being signed, foresees acknowledgement and acceptance of these general conditions. Furthermore, these general sales conditions, will prevail over any other condition or agreement indicated by the client.
- 2) **EQUIPMENT** – At its discretion, in addition to the sales price, LINSYS, may apply a contribution for equipment made on behalf of the client. These equipment will, however, remain the exclusive property of LINSYS, unless any specific agreements in writing, to be evaluated on a case by case basis, are drawn up as an exception to the above.
- 3) **SAFEGUARDING OF KNOW-HOW – DRAWINGS – TECHNICAL DOCUMENTS** – The client decisively undertakes not to disclose any technical or commercial information or any other data which he might learn about during the contractual relationship. In the event of any breach of the above on the part of the client, the seller reserves the right to claim compensation for damages. Likewise, all technical and commercial documents, drawings and designs that LINSYS Might exchange with the client during performance of the contract will be subject to the same confidentiality clause. In the event of any information and/or technical or commercial data disclosed by the client proving to be in violation of the right of industrial property or of the know-how or trademarks and/or patents of third parties, LINSYS may not, for any reason whatsoever, be held liable for said violation and, in the event, of the seller proving to be involved in any dispute and/or legal proceedings, lodged against him by third parties for the violation of trademarks, patents, know-how or other industrial secrets resulting from information and/or documents received by the client, the latter undertakes to indemnify and relieve LINSYS from any economic request for compensation and from any direct and/or indirect cost.
- 4) **DELIVERY AND TRANSPORTATION** – LINSYS undertakes to respect the delivery times indicated in the order confirmation which, in any case, may not be considered mandatory but are purely indicative. In the event of a possible written agreement stating an exact delivery time, LINSYS may not be held liable for any possible delays in delivery due to causes of force majeure and/or to any fortuitous and extraordinary events (such as, for example, accidents, strikes, transport delays, natural calamities, difficulty in obtaining the raw materials, breakdowns in production plants, etc.). Transportation of the goods is always at the expense and total risk of the client, regardless of the methods chosen either for transportation or for payment; even in the hypothesis in which, as a mere act of courtesy, LINSYS Should directly organize transportation on behalf of the client, the risks involved will be at the client's own responsibility and LINSYS, will be expressly exempted from any liability arising from damages due to transportation, unless otherwise agreed to in writing.
- 5) **TERMS OF PAYMENT AND OVERDUE PAYMENTS** – The prices and methods of payment are those shown in the offers issued by LINSYS and, if issued by representatives and/or distributors, are only binding following confirmation and acceptance by the seller. Default or overdue payment of the amount by the due date agreed upon in the order, will entitle LINSYS to claim overdue interest on the amounts owed and not paid at the rate determined in accordance with Legislative Decree no. 232 of 9 October, 2002, starting from expiry of the due date agreed upon. Defaulting of even one payment instalment shall result in the client's forfeiture of the instalment benefit in which case he will be held to payment of the full price both for orders already fulfilled or in the process of being fulfilled. Furthermore, LINSYS may invoke articles 1460 and 1461 of the Italian civil code and suspend any possible orders in progress relative to one or more orders already confirmed by LINSYS, in the event of an overdue payment resulting in a lack of trust regarding fulfilment by the client, the seller reserves the right to terminate the sales contract in accordance with article 1456 of the Italian civil code. Likewise, in the event of default in payment on the part of the client, LINSYS also reserves the discretionary right to change the terms of payment already agreed upon and accepted by the parties regarding one or more orders already confirmed by the seller.
- 6) **WITHDRAWAL** – LINSYS may withdraw from the sales contract at any moment whatsoever and stop the deliveries of goods, without any penalty and/or indemnity, or obligation to reimburse the deposits already received in the event of the existence of disputes, the instigation of admonitory, ordinary and/or insolvency proceedings or even out-of-court proceedings attributable to the client, as well as in the event of serious and repeated default in payment.
- 7) **QUALITY OF THE GOODS** – All LINSYS products are subjected to quality control procedures during all stages of manufacture in accordance with internal procedures; any requests for conformity certificates and/or testing certification in regard to supplies must be expressly stipulated in advance on the order. Any tolerances and/or product variations may derive from the nature of same and are acknowledged by the industrial practices used in the sector, for which the seller may not be held liable.
- 8) **LIABILITY FOR FAULTS AND/OR DEFECTS IN THE PRODUCT** – Considering that the application and installation of electronic systems and equipments is subject to numerous variables (destination of product, compatibility with the system/machine of destination, storage conditions of the client, etc.) that are beyond the seller's control and over which he has no power of intervention, LINSYS may not be held liable, unlimitedly, for any faults or defects of the products sold. In particular: a) LINSYS, by using quality raw materials, may not be held liable for any possible faults and/or defects in the raw material used for its products; b) LINSYS does not assume any responsibility in regard to the final destination of the product, for which the client may act and choose in full autonomy and awareness, or rather the seller may not be held liable for the fitness or otherwise of the product in regard to so-called "operating conditions" for which the client holds sole responsibility; c) LINSYS may not be held liable for any faults and/or defects of the product resulting from irregular damage, negligent storage by the client, incorrect application and/or installation methods, replacements and/or maintenance work performed by third parties, due to chemical, mechanical and/or electrical causes that have no bearing on the product as sold.
- 9) **GUARANTEE** – Apart from cases of exclusion for all liability as stipulated in point 8) above, LINSYS warrants that it will assume responsibility for any faults and/or defects in the products sold and will undertake to replace same at no additional cost or, at the seller's request, to reimburse the price paid subject to return of the goods. No compensation will be offered by the seller for any possible direct damage to either the client's systems or end product. This guarantee will only be valid on condition that: a) the client sends written notification, within the 8 day deadline stipulated from the date of delivery, detailing any obvious or evident faults and/or defects; b) the client sends written notification, within the 30 day deadline stipulated following discovery, detailing faults and/or defects that were not immediately evident or only evident following their use and in any case not later than one year after delivery; c) that the client has provided suitable and sufficient "technical specifications", with respect to which the product conforms, regardless of the final application of the product. d) that the client has used the product in accordance with the instructions and technical methods specified. In the event of a controversy regarding the existence of a fault and/or defect reported by the client, this guarantee will not be valid in the case in which the client has not kept, for at least 90 days from notification, the faulty and/or defective product for a cross check between the parties or if within one year from the date of delivery the client has not taken steps to instigate preliminary investigation proceedings in accordance with article 696 of the Italian civil code. In any case, LINSYS may not be held liable for any indirect damages resulting from loss of earnings or a reduction in production.
- 10) **GOVERNING LAWS** – This sales contract is governed by the general conditions listed herein and for everything not expressly established herein will be governed by the laws pertaining to sales set forth in the Italian civil code (article 1470 and following)
- 11) **PROCESSING OF PERSONAL DATA** Legislative Decree no. 196 of 2003 – the client authorizes the processing, communication and dissemination of his personal data by LINSYS (\*) for all contractual/legal requirements/fulfilments as well as to allow for a more efficient handling of contractual-commercial relationships including technical advertising updates. Said data may be processed in written form or on paper, magnetic, electronic or telematic supports.
- 12) **JURISDICTION** . Any controversy, claim or dispute arising between the parties in connection with the interpretation and fulfilment of this sales contract will be referred to the exclusive jurisdiction of the Courts of Cuneo. This sales contract is likewise exclusively governed by Italian Law. (\*) The personal data controller is LINSYS, Strada Provinciale 2, 12020 Roccabruna (Cuneo) - ITALY, in the person of its legal pro-tempore representative.