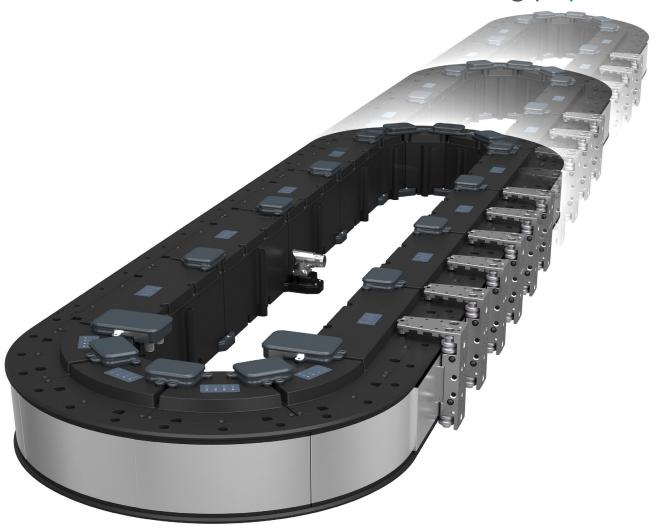
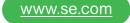
Catalog | April 2023

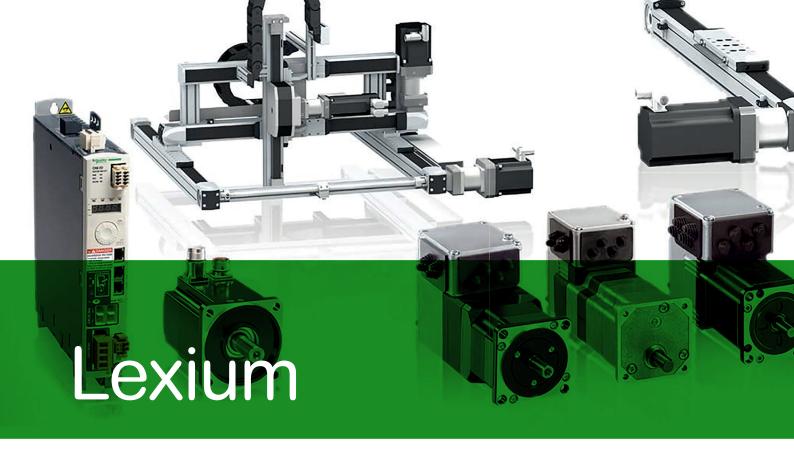


Lexium™MC12 multi carrier

The multi carrier transport system







Discover Lexium

Advanced motion control and robotics

Lexium servo drives, motors, and robotics series are designed for a broad range of motion-centric machines. From single-axis to high-performance multi-axis machines, the **Lexium** range enables high-speed movements and precise positioning in packaging, material handling, material working, electronics, and food and beverage applications.

Explore our offer

- Lexium Servo Drives and Motors
- Lexium Integrated Servo Drives
- Lexium Robotics
- Lexium Stepper Drives



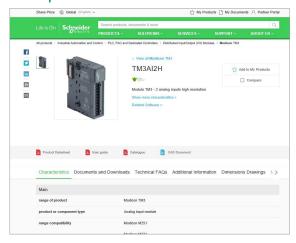
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Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance,
 Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual



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Lexium™ MC12 multi carrier The multi carrier transport system

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To be competitive in today's digital era, machine builders must be innovative. Smart machines, those that are better connected, more flexible, more efficient, and safe, are enabling machine builders to innovate in ways never before possible.

EcoStruxure, Schneider Electric's open, IoT-enabled architecture and platform, offers powerful solutions for the digital era. As part of this, EcoStruxure Machine brings powerful opportunities for machine builders and OEMs, empowering them to offer smart machines and compete in the new, digital era.

EcoStruxure Machine brings together key technologies for product connectivity and edge control on premises, and cloud technologies to provide analytics and digital services.

EcoStruxure Machine helps you bring more innovation and added value to your customers throughout the entire machine life cycle.

Innovation at Every Level for Machines is full systems across three layers:

Connected products

Our connected products for measuring, actuating, device level monitoring, and control adhere to open standards to provide unmatched integration opportunities and flexibility

- Edge Control

We are IIoT-ready with a proven set of tested and validated reference architectures that enable the design of end-to-end open, connected, and interoperable systems based on industry standards. Ethernet and OPC UA facilitates IT/OT convergence meaning machine builders reap benefits from web interfaces and cloud.

Apps, Analytics & Services

Seamless integration of machines to the IT layer allows the collection and aggregation of data ready for analysis – for machine builders and end users alike this means increased uptime and the ability to find information faster for more efficient operations and maintenance.

These levels are completely integrated from shop floor to top floor. And we have cloud offers and end-to-end cybersecurity wrapped around.

EcoStruxure Machine makes it easier for OEMs/ machine builders to offer their customers smarter machines. The advent of smart machines is driven by the changing needs of end users:

- Evolving workforce
- Reducing costs
- Dynamic markets
- Shorter life cycles
- Prioritizing functional safety and cybersecurity

EcoStruxure Machine provides one solution for the whole machine life cycle:

- With Smart Design & Engineering the time to market is reduced by up to 30% using our automated engineering and the simulation capabilities
- During Commissioning & Operation of the machine, resources such as energy, material and loss can be improved, and with seamless integration to the IT world efficiency can be improved by up to 40%
- Smart Maintenance & Services reduces the time for corrective actions up to 50%

Eco Ftruxure Machine



^{*} The Schneider Electric industrial software business and AVEVA have merged to trade as AVEVA Group plc, a UK listed company. The Schneider Electric and Life is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.

The multi carrier transport system Specifications

Specifications of Lexium MC12 multi carrier



Lexium MC12 multi carrier transport system

Lexium MC12 multi carrier is an innovative transport system to be used in machines. It uses latest linear motion technology to move products individually through the machine. These individual movements allow for new machine designs making machines faster, more flexible and space efficient.

New level of performance & flexibility for more sustainability

- Less format specific parts needed, a big step ahead in direction of toolless change over at a push of a button
- Leap in flexibility, larger variety of products can be run on the same machine

Simplified operation and maintenance

- Integral part of PacDrive 3 system diagnostic mechanisms
- Automatic configuration after replacement of segments or carriers
- Enhanced diagnostics and commissioning with EcoStruxure Machine Expert software
- Mobile app for diagnostics (Industrial Device)
- Integral part of Schneider Electric's solution for remote monitoring/health monitoring and predictive maintenance (Machine Advisor)
- Modular mechanical design for quick replacements

Differentiation & saving time in machine design for less time to market

- Game changer for machine design
 Next generation of multi carrier system, providing new leeway for even better machine designs
- The evolution mechanical camming electronic camming no camming is providing new unknown potential for more flexible machines with less footprint!
- Efficient engineering and life cycle management with a single and well-known engineering tool
- Shorter time to market though easy and time saving mechanical/electrical/program implementation
- Virtual commissioning to verify machine behavior in an early implementation phase
- Transportation, grouping and positioning of products is completely decoupled from the machine cycle

Increasing the Overall Equipment effectivness of machine

- Higher flexibility more formats per machine and simplified change over procedures with less format specific part
- > Optimized maintenance by high-service-parts
- > In summary resulting in higher machine uptime
- > Better use of production space through machines with less footprint

Main fields of application

- Lexium MC12 multi carrier is transporting, grouping and positioning products in discrete processes for such typical applications:
- > Packaging
 - Cartoning
 - Stacking (grouping)
 - Product flow adjustments (gap correction, position correction)
 - Filling, folding (tubes, bottles, pouches, ...)
 - Labelling
- > Food processing
 - Applicating
 - Cutting
- > Assembly
 - Mechatronical products
 - Pharmaceutical products
- > Material handling



Packaging application



Food processing application



Material handling application

The multi carrier transport system

Examples of applications

Examples of applications

The Lexium MC12 multi carrier system is a transport system for moving, positioning or grouping objects in machines for discrete processes.

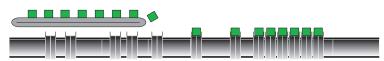
Filling



Fillina

- Multi carrier replaces transportation chain
- Individual bottle movements
- Bottles move twice as fast through capping station
- Smaller gaps between products outside processing stations reduces footprint
- Clamping for different bottle diameters increases flexibility
- Less stations (cost savings)
- More compact
- Faster and simplified format change

Grouping



Groupina

- Products can be loaded on the fly
- Pocket size can be adjusted to adapt to formats or to simplify loading
- Products move individually, high performance, increasing group size does not impact performance
- Buffer between loading and unloading station can compensate jitter in product flow
- Flexible grouping patterns

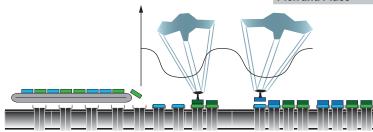
Stacking



Stacking and Grouping

- Pocket "grows" with products put into pocket
- Different products from different infeed stations can be stacked into same pocket
- Grouping of stacked products
- Products can be pushed together

Pick and Place



Pick and Place with variable speed of carrier

- More picks per min, products can be picked more often in robot sweet spot by slower speeds in working envelope and higher speeds during transfer (to next robot)
- Better accuracy, no belt slipping



Free movements

Free movements

- A carrier can be moved freely throughout the track. It can brake, accelerate, position or exert a constant force when stationary or also in motion. Like any linear motor, the carrier can synchronize on other movements. When arranged in a circle, the carriers move endlessly following the flow of product.
- Several carriers can all be moved independently of each other. They can be positioned at absolute positions over the entire distance traveled. In addition, they can be moved relative to each other and avoid collisions with their neighbour.

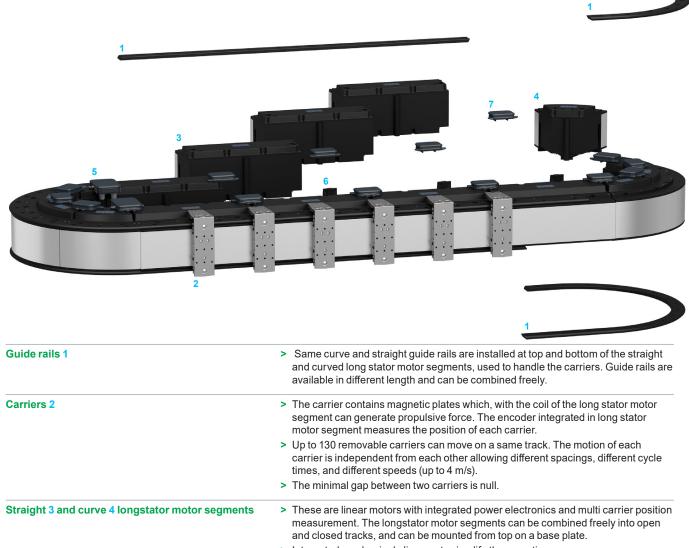
The multi carrier transport system

System components to create a track

System components to create a track

Lexium MC12 multi carrier is a modular system for machine applications and consists of long stator motors, on which multiple carrier units can be moved independently from each other.

- The system components are designed for compact, modular, flexible and efficient machine designs. Lexium MC12 multi carrier can reduce engineering efforts, mechanical variants, and changeover time.
- > The components of Lexium MC12 multi carrier are mounted at the machine frame.



- > Integrated mechanical alignments simplify the mounting process.
- No cabinet space is required for the drive electronics as it is integrated in the track segments.
- > Tracks can be designed in machines in horizontal or vertical position.
- > The maximum length of a track is 40 m (131.23 ft) (1)
- Each segment is equipped with electronic type plates which enables the controller to identify the segments and the resulting track geometry automatically.

Communication interconnect 5

 Communication interconnects are used to interconnect the straight or curve longstator motor segments and to support the transmission of the communication (Sercos III), and of the SFO safety function (Safe Force Off).

Connection modules 6

> The Connection modules ensure the overvoltage protection, and the supply voltage monitoring.

Power interconnects 7

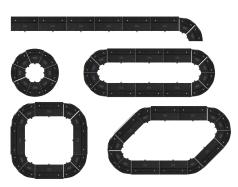
- Power interconnects are used to interconnect the straight or curve longstator motor segments, and to support the transmission of the DC power, ensuring a quick wiring.
- > When mounting two longstators, supply voltage is automaticaly connected through.

(1) For track length of more than 20 m (65,61 ft), Please contact your SE representative.



The multi carrier transport system Setting up





Available Open or closed track geometries

Setting up the system components

Designing a track

Shapes

- Open tracks or closed tracks that can be realized with 300 mm (11.81 in) straight long stator motor segments and 200 mm (7.87 in) 45° outside curve long stator motor segments.
- > The Maximum track length is 40 m (131.23 ft) (1).
- > The free space left inside a track allows the integration of additional equipment such as Delta robots, reduces the space of an installation, and ease the access for service or maintenance.

> Track's orientation

- Track can be mounted in Vertical or Horizontal orientations.



Vertical orientation



Horizontal orientation

2 1 1 4 4 3 Safety zone 2 Safety zone 1

Communication interconnects associated to Sercos as provided by LMCPro2 motion controller (1) and safe outputs: TM5SDO4TFS, TM5SDO4TAFS safety modules, and XPSMCMRO0004G, XPSMCMDO0004G modular safety modules (2) combined with Harmony XB5 Emergency stop pushbuttons (3).

ABLU3A48200 (4): 3-phase power supply is dedicated to Lexium MC12 multi carrier system.

Connecting a track

Communication interconnects

- > There are different interconnects available, e.g. to connect Sercos cables or to connect Safe Force Off signal.
- > The communication interconnects ensure the Sercos communication and Safety function:
 - Once connected, the interconnects eliminate further wiring
 - Multiple safety zones are allowed with one connection per zone

Connection modules

- Connection module are installed close to power supply, between power supply and power connector at track. They provide the internal DC Bus and power supply on tracks, they ensure the overvoltage protection, and the supply voltage monitoring.
- > The Internal DC Bus and the power supply (48 V DC) are automatically connected through when mounting two segments.
 - No wiring is required between the segments
 - Up to three 48 V power supplies can be installed in parallel according to the
 - The Power infeed is applied in parallel at straight and/or curves long stator segments

Power interconnects

- There are different versions available, e.g. with a power connector to connect power to the track or a disconnector which allows to split a track into different power zones.
- The power interconnects ensure the power distribution in the track. They are mounted at the bottom side and provide an alignment aid helping to mount the long stator motor segments properly.

(1) For track lenght of more than 20 m (65,61 ft), Please contact your SE representative.

The multi carrier transport system Complementary of offers

Complementary of offers

Control

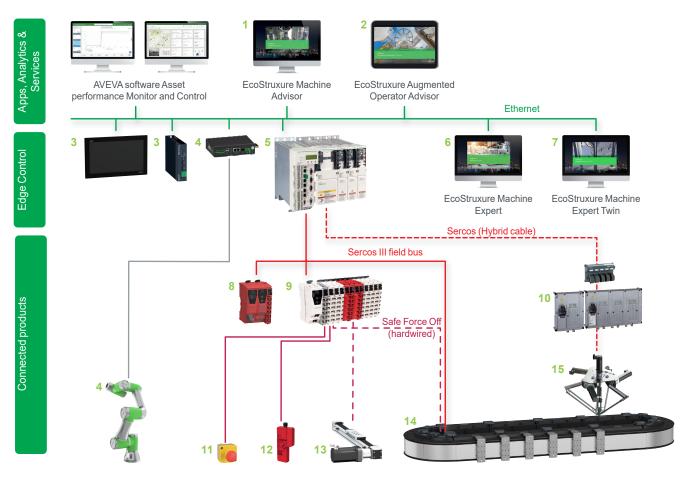
Lexium MC12 multi carrier is integrated into PacDrive 3 system, using PacDrive 3 motion controllers (LMC Pro2). Lexium MC12 becomes part of PacDrive 3 architecture.

Configuration

- > Lexium MC12 multi carrier applications can be developed and commissioned with dedicated application libraries (CAD, Eplan, Application function block, ...) embedded in **EcoStruxure Machine Expert**, Schneider Electric's single engineering environment for developing, configuring and commissioning complete automation solutions, with less time to market.
 - The multi dimensional software architecture allows visualization and simulation during the conception of a motion centric machine.
- > Lexium MC12 multi carrier is part of the EcoStruxure Machine Expert Twin software, **Builder** and **Visu** license (integrated in EcoStruxure Machine Expert):
 - EcoStruxure Machine Expert Visu together with the Multi Carrier Configurator of Machine Expert is allowing users
 to automatically create Digital twin models of 1 multi carrier, allowing to visualize 3D models for testing purposes.
 - EcoStruxure Machine Expert Twin Builder is allowing users to automatically generate digital twin models from tracks pre-defined in Machine Expert and deployed to a PacDrive LMC. Multiple models can be generated.

Related products

- > Schneider Electric offers several ranges of robots and products (actuators, control systems) to complete a PacDrive 3 automation solution.
- > The compact design of the Lexium MC12 multi carrier leaves space to mount additional equipment like Delta robots within closed tracks.



- 1 EcoStruxure Machine Advisor
- 2 EcoStruxure Augmented operator Advisor
- 3 Harmony iPC panel, Harmony Edge box
- 4 Lexium Cobot: Collaborative robot and Cobot compact controller (1)
- 5 PacDrive LMC Pro2 Motion controller, Lexium 62 Multi axis servo drive
- 6 EcoStruxure Machine Expert software
- 7 EcoStruxure Machine Expert Twin software
- 8 Modicon TM5CSLC Safety logic controller
- 9 Modicon TM5: Sercos interface module, Safety IO expansion module, IO expansion module (IP 20)
- 10 Lexium 62 ILD detached servo drives
- 11 Harmony XALD Harmony XB5 Emergency stop pushbuttons
- 12 Telemecanique XCSR contactless RFID safety switch
- 13 Lexium PAS: Linear axes with fixed axis body
- 14 Lexium MC12 multi carrier
- 15 Lexium P Delta 3 robot

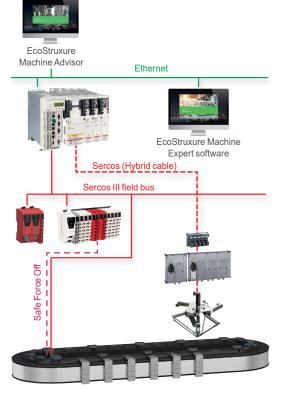
⁽¹⁾ Scheduled for commercialization in the third quarter of 2023.

The multi carrier transport system

Communication, Embedded safety function SFO, Main characteristics



- Cat 5e
- Baudrate: 100 Mbps
- Cycle time: 1...4 ms



Communication

Lexium MC12 multi carrier is communicating via Sercos III automation bus, and controlled by the PacDrive 3 LMC Pro2 motion controller.

 Each carrier is handled as Sercos device by the system with a Sercos ID and a reserved area for communication, similar to a servo drive in configuration and application.

Embedded safety function SFO

Lexium MC12 multi carrier is an integral part of the Machine safety system with its drive embedded Safe Force Off (SFO) function.

- This function meets the requirements of SIL 3 according IEC 61800-5-2, IEC 62061 and IEC 61508 as well as up to category 3 and PLe according to EN ISO 13849-1.
- It simplifies the setup of installations requiring complex safety equipment and improves performance during maintenance operations.

Main chara	acteristics (1)				
Lexium MC12 multi carrier					
Peak Force (2)		120 N (26.97 lbf)			
Total mass (3)		≤ 3 kg (6.61 lb)			
Nominal mass of	a carrier	0,8 kg (1.76 lb)			
Max. payload per	carrier	2.2 kg (4.85 lb)			
Max. acceleration	n for 1 kg (2.204 lb)	120 m/s² (393.70 ft/s²)			
Max. speed		4 m/s (13.12 ft/s)			
Length	Straight longstator segment	300 mm <i>(11.81 in)</i>			
	Curve longstator segment	200 mm (7.87 in) – Radius: 255 mm (10.04 in)			
Repetetive	Straight longstator segment	0.03 mm (0.001 in)			
accuracy (4)	Curve longstator segment	0.05 mm (0.002 in)			
Absolute	Straight longstator segment	0.25 mm <i>(0.009 in)</i>			
accuracy	Curve longstator motor	0.35 mm <i>(0.013 in)</i>			
IP Class		IP65			
Cleanroom Class	(ISO / GMP)	5 / A targeted			
Max. number of carriers	per track	Equals max. number of servo axis controller can handle (currenty up to 130)			
	per segment	6 carriers on Straight longstator segment			
		4 carriers on Curve longstator segment			
Carrier	Width x Height	50 x 143 mm (1.96 x 5.63 in)			
	Weight without load	0.8 kg (1.763 lb)			
Max. track length		40 m (131.23 ft) (5)			

- (1) More characteristics on Product datasheet.
- (2) Max. force generated in moving direction of carrier, Peak force can be increased by use of multiple carriers together.
- (3) Mass of the carrier plus payload.
- (4) Single carrier to single point accuracy.
- (5) For track lenght of more than 20 m (65,61 ft), Please contact your SE representative.

The multi carrier transport system

System components

System components



LXMMC12MS06S100



LXMMC12MA02S100



LXMMCACMD02S100







LXMMCBPA001S100 LXMMCBPA00XS100



LXMMCBPAB01S100



LXMMC12CA51S100



LXMMCACT0A1S100

LXMMCBCA001S100

LXMMCBCAF01S100

LXMMCBDAS01S100

LXMMCBPAP01S100

interconnects







Cystem comp	Jonetha				
Designation	Description	Reference (1)	Weight kg <i>Ib</i>		
Longstator motor s	segment to create tracks				
Longstator motor segment	Straight segment Length: 300 mm (11.81 in)	LXMMC12MS06S100	7.900 <i>17.41</i>		
with an integrated drive, IP65	Curve segment 45° arc	LXMMC12MA02S100	4.500 9.92		
Braking resistor to increase the amount of energy that can be absorbed during deceleration phases of demanding applications					
Braking resistor	Degree of protection: IP65 Ohmic value: 3 O	LXMMCABR120S100	0.600		

Connection module) Continuous power: 100 W Connection cable length: 2 m (78.74 in)			
Connection module	providing the internal DC Bus and power supply	on tracks	
Connection module	20 A continuous power to connect track to power supply Installed between two segments	LXMMCACMD02S100	0.045 0.09
	Connection module connector kit (Spare part)	LXMMCACMCS1S100	0.045 0.09

				0.03
Communication in safety function (Safety	terconnects supporting the tra e Force Off)	nsmission of comm	nunication (Sercos III), and/or	rSFO
Communication interconnects	Communication interconnect between segments	Sold by 1 piece	LXMMCBCA001S100	0.050 <i>0.11</i>
		Sold by 10 pieces	LXMMCBCA00XS100	0.100
		With two additional Sercos connectors (infeed port/outfeed port)	LXMMCBCAS01S100	0.22
		With one additional SFO connector	LXMMCBCAF01S100	_
	To use at the beginning of an open track	With one additional Sercos connector (infeed port) and one additional SFO	LXMMCBDASF1S100	_

		connector	
	To use at the end of an open track	With one additional Sercos connector (outfeed port)	LXMMCBDAS01S100
Power interconnect	ts supporting the transmission	of the DC power	
Power	To use between segments	1 piece	LXMMCBPA001S100

		Sold by 10 pieces	LXMMCBPA00XS100	3.500 7.71
		With M23 power infeed connector	LXMMCBPAP01S100	0.600 1.32
Power disconnector	Used to separate the DC bu	is between segments	LXMMCBPAB01S100	0.400 <i>0.88</i>
Carrier				
Carrier	Carrier for Lexium MC12 multi carrier	1 piece	LXMMC12CA51S100	0.800 1.76
		Sold by 10 pieces	LXMMC12CA5XS100	8.000 17.6
Carrier handling tool	Handling tool to put carrier carrier from track	on track or to remove	LXMMCACT0A1S100	0.520 1.15
Carrier roller replacement set	10 sets of 4 rollers and requ 10x 2 lubrication pads	ired screws,	LXMMCARS0AXS100	0.500 1.1
Encoder magnet fo	or carrier	Sold by 50 pieces	LXMMCAMGEALS100	0.200

LXMMCAMGMALS100

0.400

0.88

0.44

1.850

lubrication gun	Oil capacity:120 cc Delivery volume: 0.5 cc/stroke		1.241
Single-hand	To refill the lubrication reservoirs of the carriers	VW33MAP22	0.563
Set of hard stops	Set of 2 (one hard stop for each end of the track) To stop carriers at the end of an open track	LXMMCAHS001S00	6.300 <i>13.8</i> 9
Material test kit 1	Material probes for resistance tests	LXMMCAMK001S100	1.250 2.76
Accessories			
			4.08

Sold by 50 pieces



Motion magnet set for carrier

The multi carrier transport system

System components



LXMMCRS0A06S100





LXMMCRABA64S100

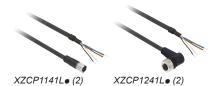


LXMMCRABA66S100



LXMMCRABA68S100









ABLU3A48200

Designation	Description		Reference	Weight	
			(1)	kg	lb
Guide rail holding	g the segments				
Guide rail sets	Set of top and bottom	1 unit of length, straight	LXMMCRS0A06S100	1.300	2.86
	guide rails for straight segment	2 units of length, straight	LXMMCRS0A12S100	2.500	5.51
	oogmone	3 units of length straight	LXMMCRS0A18S100	3.800	8.37
		4 units of length, straight	LXMMCRS0A24S100	5.000	11.00
		5 units of length, straight	LXMMCRS0A30S100	6.200	13.66
	Open track with curves	0.5 units of length	LXMMCRSEA03S100	0.700	1.54
	Set of top and bottom guide rails for curve	45° arc, 1 unit of length straight	LXMMCRABA62S100	2.200	4.85
	segment	90° arc, 1 unit of length straight	LXMMCRABA64S100	3.000	6.61
		135° arc, 1 unit of length straight	LXMMCRABA66S100	3.800	8.37
		180° arc, 1 unit of length straight	LXMMCRABA68S100	4.600	10.14
		360° arc	LXMMCRA0A00S100	6.600	14.5

Description	For use		Length of cable		Reference	Weight	
			m	ft	(1)	kg	lb
Power cables	Between Connection module LXMMCACMD02S100 and Power interconnect LXMMCBPAP01S100		2	6.56	LXMMCAPC020S100	0.500	1.10
M23 connector (Power nterconnect side), free			4	13.12	LXMMCAPC040S100	0.900	2.00
wires (connection module	IIILEICOIIIIECI EXIVINODI	AI 010100	6	6.56	LXMMCAPC060S100	1.300	2.86
side)			8	26.24	LXMMCAPC080S100	1.700	3.74
			10	32.80	LXMMCAPC100S100	2.100	4.62
				39.37	LXMMCAPC120S100	2.500	5.51
			14	45.93	LXMMCAPC140S100	2.900	6.39
		16	52.49	LXMMCAPC160S100	3.300	7.27	
		18	59.05	LXMMCAPC180S100	3.700	8.15	
			20	65.61	LXMMCAPC200S100	4.100	9.04
	Between Modicon TM5 Straight safety IO module and Communication interconnects (SFO)	Straight	2	6.56	XZCP1141L2	0.090	0.198
SFO safety function (2)			5	16.40	XZCP1141L5	0.190	0.418
M12, 4-pin connectors			10	32.80	XZCP1141L10	0.370	0.815
Metal clamping ring PUR cable		Elbowed	2	6.56	XZCP1241L2	0.090	0.198
54515			5	16.40	XZCP1241L5	0.190	0.418
				32.80	XZCP1241L10	0.370	0.815
Sercos cables	Between LMC Pro2 moti		3	9.84	VW3E3065R030	1.367	3.01
RJ45 / M12 angled, 4-pin	or Moricon TM5 safety of Communication intercon		5	16.40	VW3E3065R050	0.557	1.23
	Sercos connector)		10	32.81	VW3E3065R100	1.075	2.37

Dedicated offe	r
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Designation Description Reference (1) 3-phase Power supply Input voltage: 380...500 Vac ABLU3A48200 for industrial use, rail

Output voltage: 48 Vdc mounting Nominal power: 960 W Nominal current: 20 A

Related offers	
Title	Consult catalog (1)
EcoStruxure Machine Expert configuration software	<u>DIA3ED2180701EN</u>
PacDrive3 a complete automation solution for motor centric machines	<u>DIA3ED2160301EN</u>
PacDrive LMC Pro2 Motion controller for automating machines/lines with 0 – 130 servo or robot axes	<u>DIA7ED2160303EN</u>
Lexium 62 Multi axis servo drive and servo motors	<u>DIA7ED2160305EN</u>
Lexium 62 ILM Multiaxis integrated servo drives	<u>DIA7ED2160306EN</u>
Lexium 62 ILD detached servo drives: single drive, triple drive	<u>DIA3ED2161202EN</u>
Lexium T, P Delta 2 and Delta 3 robots for pick & place solutions	<u>DIA3ED2160307EN</u>
Lexium Cobot, Collaborative robot	<u>DIA7ED2220801EN</u>
Modicon TM5 High-Performance and Safe IP20 Modular I/O system	DIA3ED2131204EN

⁽¹⁾ Click on reference to get technical characteristics.
(2) Those Pre-wired connectors are sold by our partner Telemecanique Sensors.

The multi carrier transport system Configuration

Configuration

Toolset covering the machine life cycle

■ Design & Engineering

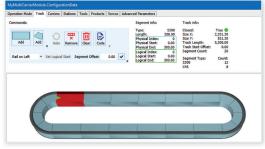
- Physical configuration of the track or generated from scan
- Definition of coordinate system and direction
- Handling physical dimensions of carriers and products
- Visualization and virtual commissioning of multi carrier system



- Library
- Mechanical bricks mounted by the OEM
- Configurator



- Monitoring with Ecostruxure Machine Advisor
- Visualization



Track configuration

| Carrier (Pales) | Carrier (Pa

Carrier configuration

Software

- As Lexium MC12 multi carrier becomes part of PacDrive architecture, its configuration is managed with Ecostruxure Machine Expert software (1):
 - Deep integration into engineering environment
 - Different usability levels
 - Motion synchronization capabilities
 - Simulation
 - Visualization
 - Virtual commissioning

Libraries

- For the efficient
 - Predefined functions for common needs, like carrier queing, two carrier clamping, multi carrier positioning and release, automatic gap control between moving carriers, ...
- For the experienced
 - Functions working on track level, like scanning a track, management of carriers on the track, monitoring and emergency reactions on track level
- For the experts
 - Carriers are represented like servo axis in the system
 - Existing functionality, e.g. camming can be applied to move carriers
 - Full freedom with full responsibility to manage all movements

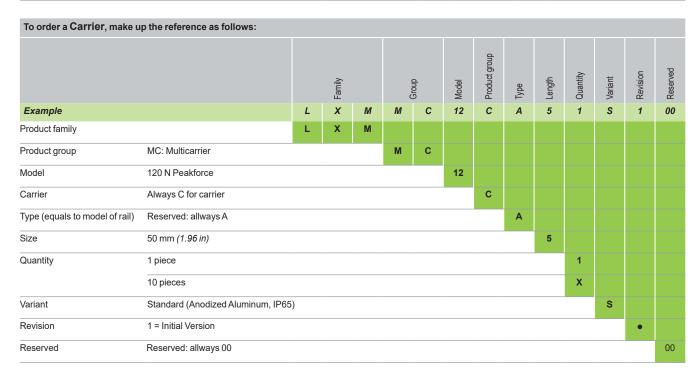
(1) Consult catalog ref. DIA3ED2180701EN



Catalog ref. DIA3ED2180701EN

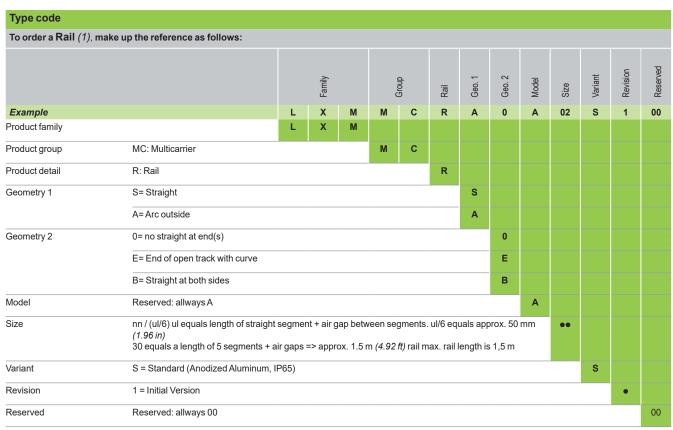
The multi carrier transport system Segment, Carrier

Type code													
To order a Segment, r	make up the reference as follows:												
		Family		Group		Model		Segment geo	Length	Vvaraiant	Revision	Reserved	
Example		L	X	М	M	С	12	M	s	06	S	1	00
Product family		L	Х	М									
Product group	MC: Multicarrier				M	С							
Model	12 = 120N Peakforce	12 = 120N Peakforce 12											
Segment	M = Standard segment												
Segment geometry	S= Straight S												
	A=Arc outside A												
Length	for straight segments length given in n50 mm (n1.96 in), e.g 06 = 300 mm (11.81 in)												
	for curved segments angle is given in n22,5°, e.g 02 = 45°												
Variant	Standard (Anodized Aluminum, IP65)										S		
Revision	1 = Initial version											•	
Reserved	Reserved: allways 00												00



The multi carrier transport system

Rail, Bridge (Communication interconnect)

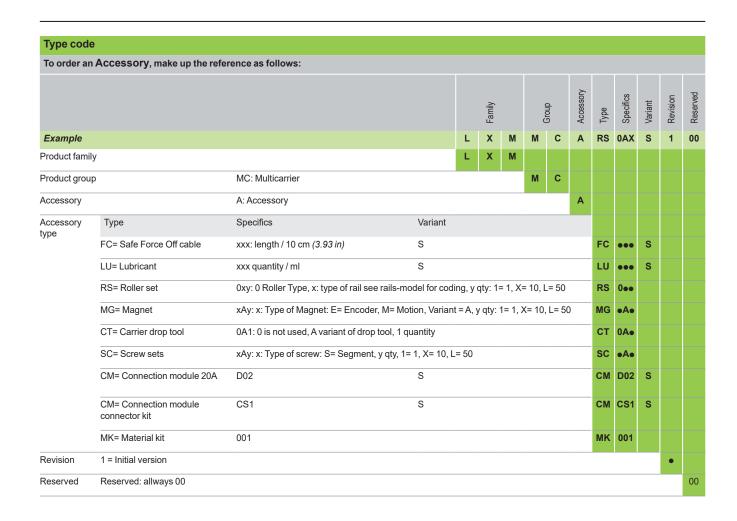


(1) Rails are always sold as a set of two rails (bottom and top rail).

(2) Max. rail length is 1,5 m (4.92 ft).

To order a Communication i	nterconnect, make up the reference	e as fo	llows:												
			Family		Group		Bridge	Bridge type	Model	Supplies		Quantity	Variant	Revision	Reserved
Example		L	X	M	М	С	В	С	Α	0	0	1	s	1	00
Product family		L	Х	M											
Product group	MC= Multicarrier		•		M	С									
Product detail	B= Communication interconnect B														
Bridge type	C= Communication closed track														
	D = Communication open end of track														
	P = Power closed track														
	Q = Power open end of track														
Model	A= stands for current Bridge design														
Supplies	0 = no supply, plain interconnect										0				
up to 2 different inputs/outputs can be specified	D = disconnector, interrupts connection between segment, no supply										D				
	P = Power supply									Р	Р				
	S = Bus supply (Sercos III)										S				
	F = Safe Force Off									F	F				
Quantity	1 = 1, X = 10											•			
Variant	S = Standard (Anodized Aluminum, IP65)												S		
Revision	1 = Initial version												•		
Reserved	Reserved: allways 00												00		

The multi carrier transport system Accessory



The multi carrier transport system Product reference index

۸	
ABLU3A48200	11
L	
LXMMC12CA51S100	10
LXMMC12CA5XS100	10
LXMMC12MA02S100	10
LXMMC12MS06S100	10
LXMMCABR120S100	10
LXMMCACMCS1S100	10
LXMMCACMD02S100	10
LXMMCACT0A1S100	10
LXMMCAHS001S00	10
LXMMCAMGEALS100	10
LXMMCAMGMALS100 LXMMCAMK001S100	10
LXMMCAPC020S100	11
LXMMCAPC040S100	11
LXMMCAPC060S100	11
LXMMCAPC080S100	11
LXMMCAPC100S100	11
LXMMCAPC120S100	11
LXMMCAPC140S100	11
LXMMCAPC160S100	11
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LXMMCBCA001S100	10
LXMMCBCA00XS100	10
LXMMCBCAF01S100	10
LXMMCBCAS01S100	10
LXMMCBDAS01S100	10
LXMMCBDASF1S100	10
LXMMCBPA001S100	10
LXMMCBPA00XS100 LXMMCBPAB01S100	10
LXMMCBPAP01S100	10
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LXMMCRS0A12S100	11
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LXMMCRS0A24S100	11
LXMMCRS0A30S100	11
LXMMCRSEA03S100	11
V	
VW33MAP22	10
VW3E3065R030	11
VW3E3065R050	11
VW3E3065R100 X	11
XZCP1141L10	11
XZCP1141L10 XZCP1141L2	11
XZCP1141L2 XZCP1141L5	11
XZCP1141L3 XZCP1241L10	11
XZCP1241L12	11
XZCP1241L5	11





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Schneider Electric Industries SAS

Head Office 35, rue Joseph Monier - CS 30323 F-92500 Rueil-Malmaison Cedex France

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