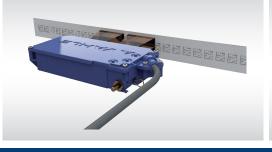


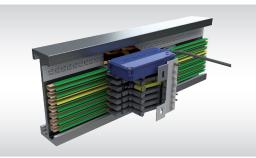


APOS Optic Positioning System

SYSTEMS IN MOTION







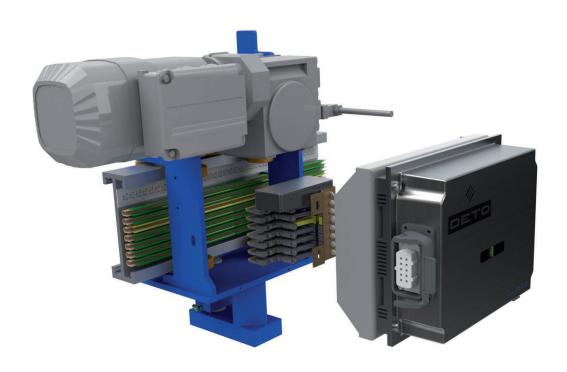
APOS Optic was developed for automated handling systems. This positioning system is especially designed to meet specific requirements of EMS and rail guided vehicle systems.

Specifications

- Absolute position determination up to 10,000 m total system length
- Contactless
- Compact design and reliable transmission by DataMatrix-code
- Travel speed up to 180 m/min
- Resolution: +/- 1 mm
- Operating temperature: 0 60° C
- Minimum bending radius
 - horizontal = 750 mm
 - vertical = 2300 mm
- Two cameras per reading head w/ LED light source

Why APOS Optic?

- No additional support for the reading head required
 simple installation
 - integrated into the collector assembly
- Compact assembly less space requirements
- Unaffected by external light sources
- Power, positioning, data & control systems from one provider
- Dual cameras per reading head
 - Able to bridge code gaps up to 40mm
 - High redundancy/reliability



Code strip

- DataMatrix-Code
- Code size 10 x 10 mm
- Height of code strip: 25 mm
- Max. coil length: 500m
- Adhesive backed for quick and easy installation



Туре	Description	Order-no.
CB25-10X10	Codestrip CB25, height 25mm with 10x10 mm code image size	10004169

Reading head

- Dual cameras
- Standard reading distance: 85 mm (other distances on request)
- Depth of field: +/- 14 mm
- Dual LED illumnation
- Mounts to standard collector bracket
- Compact housing (153mm x 57mm x 28mm)

- Compact Housing (153)IIIII x 25IIIIII)							
Туре	No. of cameras	Description	Interface	Baud rate	Order-no.		
LK-02-RS485-D-576-D1-54	2	APOS optic reading head	RS485 interface Deto protocol	57600 Bit/s	10004140		
LK-02-RS485-D-625-D1-54	2	APOS optic reading head	RS485 interface Deto protocol	62500 Bit/s	10004141		
LK-02-RS485-S-576-D1-54	2	APOS optic reading head	RS485 interface Sick/Leuze protocol	57600 Bit/s	10005456		
LK-02-RS485-S-625-D1-54	2	APOS optic reading head	RS485 interface Sick/Leuze protocol	62500 Bit/s	10005457		

Spooling device for code strip

The spooling device serves as installation tool to glue the code strip onto the web of an EMS-track beam.



Туре	Description	Order-no.
ABV-CB-EHB180	Spooling device EHB 180 for EMS profile 180x60	10004238
ABV-CB-EHB240	Spooling device EHB 240 for EMS profile 140x80	10004239

Products and Service

Catalog No. 7b | 2014

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1		
	Open conductor systems	1a
2	Insulated Conductor Systems	
	U10	2a
	U15, U25, U35	2c
	U20, U30, U40	2d
3	Compact Conductor Systems	
	VKS 10	3a
	VKS - VKL	3b
4	Enclosed Conductor Systems	
	KSL	4a
	КВН	4b
	MKH	4c
	LSV - LSVG	4d
5	Contactless Power Supply	
	Contactless power supply (CPS®)	5a
6	Data Transmission	
	VAHLE Powercom [®]	6a
	Slotted Microwave Guide (SMG)	6b
	Mini-Slotted Microwave Guide (M-SMG)	6c
7	Positioning Systems	
	VAHLE APOS®	7a
	VAHLE APOS Optic	7b
8	Festoon Systems	
	Light duty festoon systems - ☐ tracks & ♦ tracks	8a
	Heavy duty festoon systems - T Beam tracks	8b
9	Reels	
	Spring operated cable reels	9a
	Motor powered cable reels	9b
10	Port Technology	
	eRTG Solutions	10a
11	Control Systems	
	VAHLE-DETO	11a
12	2 Other	
	Battery charging contacts	12a
	VMT	12b
	BOK	12c
	Specialty Components Conductor Rings , Heavy Enclosed, Handling Systems, Cleaning Components, Polarity Protection	Misc
13	Services	

Installation Services - On site supervision & training, pre-assembly, and commissioning

 $\label{thm:condition} \textbf{Troubleshooting - Site inspection, maintenance, and repair}$



