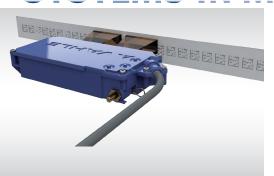
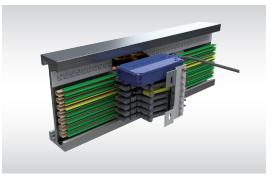


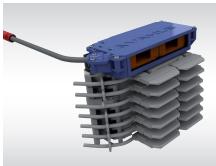


APOS Optic Absolute Positioning System

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

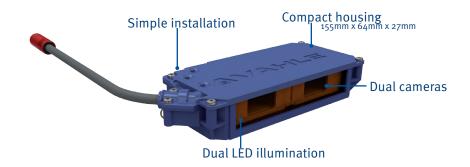
- Resolution: +/- 1 mm
- Operating temperature: 0 60° C
- Minimum bending radius
 horizontal = 750 mm
 vertical = 2300 mm
- Two cameras per reading head w/ LED light source

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



Reading head



- Standard mounting distance: 36 mm Start-Up Time <2 seconds
- Depth of field: +/- 14 mm
- RS 485 or SSI Interface
- Mounts to standard collector bracket Rated to IP54
- 6 codes read simultaneously

	/				
Туре	No. of cameras	Description	Interface	Band 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

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	Codestrin CB25 height 25mm with 10x10 mm code image size	10004169

Spooling device for code strip

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

the web of all EM3-ti	ack 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 | 2016

1	Open Conductor Systems	
	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
	KBH	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, SMGM, SMGX)	6b
7	Positioning Systems	
	VAHLE APOS®	7a
	VAHLE APOS Optic	7b
8	Festoon Systems	
	Light duty festoon systems - ☐ tracks &♦ tracks	8a
	Heavy duty festoon systems - I Beam tracks	8b
9	Reels	
	Spring operated cable reels	9a
4.0	Motor powered cable reels	9b
10	Port Technology eRTG Solutions	10-
11		10a
11	VAHLE-DETO	11a
12	? Other	110
12	Battery charging contacts	12a
	VMT	12a 12b
	BOK	12b
	Specialty Components	Misc
	Conductor Rings , Heavy Enclosed, Handling Systems, Cleaning Components, Polarity Protection	
13	Services	

 $In stallation \ Services - On \ site \ supervision \ \& \ training, \ pre-assembly, \ and \ commissioning$

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



