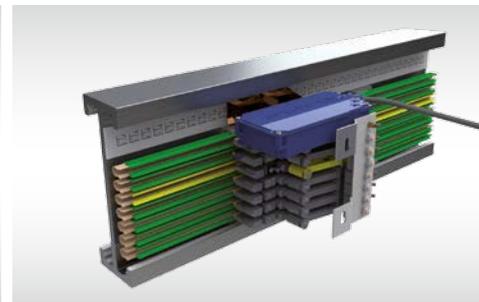
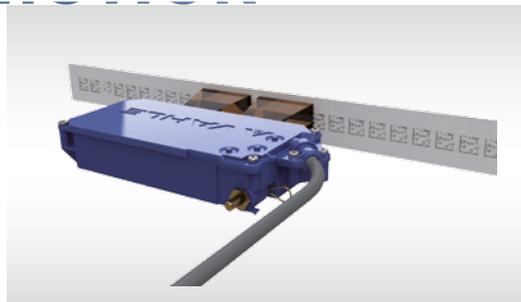
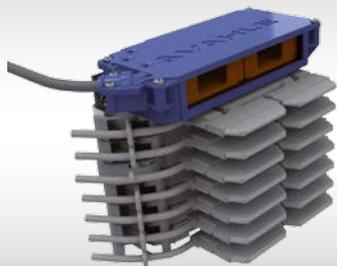


VAHLE
powered by **DETO**

APOS Optic Positioning System

SYSTEMS IN MOTION



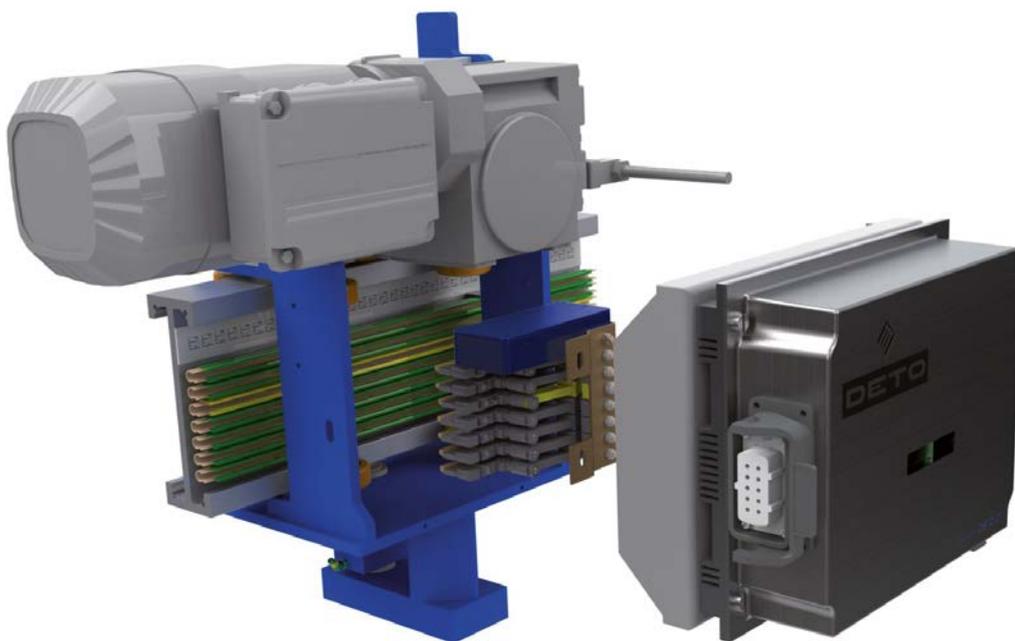
APOS Optic was developed for automated handling systems. This positioning system is especially designed to meet specific requirements of EMS technology.

Characteristics

- absolute position determination up to 10,000 m system's length
- contactless operation
- 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 radii
 - horizontal = 750 mm
 - vertical = 2300 mm
- reading head with two cameras

Why APOS Optic?

- no additional support for the reading head required
 - simple assembly as the head can just be inserted into a pin
 - integrated into the collector package
- more space available on the vehicle
- extremely external light insensitive
- conductors and positioning system from only one supplier
- one reading head equipped with two cameras guarantees a higher system's reliability



Code strip

- DataMatrix-Code interference insensitive
- Code size 10 x 10 mm
- Height of code strip: 25 mm
- Max. coil length: 500 m
- In case of damage quickly and easily exchangeable



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

Reading head

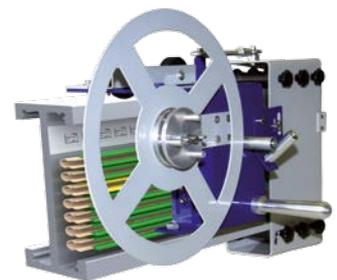
- Optical scanning of position with two integrated cameras
- Standard reading distance: 36 mm from the leading edge of the sensor to the surface of the code strip (other distances on request)
- Depth of field: +/- 14 mm
- With integrated illumination



Type	No. of cameras	Description	Interface	Baud rate	Order-no.
LK-O2-RS485-D-576-D1-54	2	APOS optic reading head RS485 interface Deto protocol	RS485-interface Deto protocol	57600 Bit/s	10004140
LK-O2-RS485-D-625-D1-54	2	APOS optic reading head RS485 interface Deto protocol	RS485 interface Deto protocol	62500 Bit/s	10004141
LK-O2-RS485-S-576-D1-54	2	APOS optic reading head RS485 interface Sick/Leuze protocol	RS485 interface Sick/Leuze protocol	57600 Bit/s	10005456
LK-O2-RS485-S-625-D1-54	2	APOS optic reading head RS485 interface Sick/Leuze protocol	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.



Type	Description	Order-no.
ABV-CB-EHB180	Spooling device EHB 180	10004238
ABV-CB-EHB240	Spooling device EHB 240	10004239

Products and Service

Catalog No.

1 Open conductor systems	
Open conductor systems	1a
2 Insulated conductor systems	
U10	2a
FABA 100	2b
U15, U25, U35	2c
U20, U30, U40	2d
3 Compact conductor systems	
VKS 10	3a
VKS - VKL	3b
VMT	3c
4 Enclosed conductor systems	
KBSL - 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)	6b
7 Positioning systems	
VAHLE APOS®	7a
VAHLE APOS Optic	7b
8 Festoon systems and cables	
Festoon systems for -tracks I	8a
Festoon systems for flat cables on -Track	8b
Festoon systems for round cables on -track	8c
Festoon systems for -track	8d
Cables	8e
9 Reels	
Spring operated cable reels	9a
Motor powered cable reels	9b
10 Other	
Battery charging systems	10a
Heavy enclosed conductor systems	10b
Tender	10c
Contact wire	10d
Assemblies / Commissioning	
Spare parts / Maintenance service	



certified by DQS according to Din EN
ISO 9001:2008 OHSAS 18001:2007
(Reg. Nr. 003140 QM 08/BSOH)

 **VAHLE**
ELECTRIFICATION SYSTEMS