

APOS Optic Positioning System

powered by DETO



SYSTEMS IN MOTION







APOS Optic was developed for automated handling systems. This positioning system is especially designed for special requirements of the EMS-technology.

Characteristics

- absolute position determination up to 10,000 m system length
- contactless system
- compact design and safe 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 one or two cameras

Why APOS Optic?

- no additional support for the reading head required
- simple assembly as the head can be easily plugged on a bolt
- integration into the collector package
- more space available on the vehicle
- extremely insensitive against external light
- conductors and positioning system only from one supplier
- one reading head equipped with two cameras guarantees a higher process reliability



Code strip

- DataMatrix-Code insentitive against interferences
- Code size 10 x 10 mm
- Height of code strip: 25 mm
- Max. coil length: 500m
- In case of damage fast and easy to exchange



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

Reading head

- Optical scanning of the position with one, optional two integrated cameras
- Standard reading distance: 85 mm (other distances on request)
- Sharpness: +/- 14 mm
- With integrated lighting



Туре	No. of cameras	Desciption	Interface	Baud rate	Order-no.
LK-O1-RS485-D-576-D1-54	1	APOS optic reading head RS485-interface Deto-protocol	RS485-interface Deto-protocol	57600 Bit/s	10004138
LK-01-RS485-D-625-D1-54	1	APOS optic reading head RS485-interface Deto-protocol	RS485-interface Deto-protocol	62500 Bit/s	10004139
LK-02-RS485-D-576-D1-54	2	APOS optic reading head RS485-interface Deto-protocol	RS485-interface Deto-protocol	57600 Bit/s	10004140
LK-02-RS485-D-625-D1-54	2	APOS optic reading head RS485-interface Deto-protocol	RS485-interface Deto-protocol	62500 Bit/s	10004141

Spooling device for code strip

The spooling device serves as mounting tool to glue the code strip on the web of an EMS-profile.



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

Pı	oducts 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
4	Enclosed conductor systems	
	KBSL - 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
7	Positioning systems	
	VAHLE APOS®	7a
	VAHLE APOS Optic	7b
8	Festoon systems and cables	
	Festoon systems for	8a
	Festoon systems for flat cables on I-track	8b
	Festoon systems for round cables on I-track	8c
	Festoon systems for ♦-track	8d
	Cables	8e
9	Reels	
	Spring operated cable reels	9a
	Motor powered cable reels	9b
10	Other Other	
	Battery charging systems	10a
	Heavy enclosed conductor systems	10b
	Tender	10c
	Contact wire	10d
	ssemblies / Commissioning	
S	pare parts / Maintenance service	





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

