

• VAHLE

APOSAbsolute Positioning System

SYSTEMS IN MOTION







APOS Positioning Systems

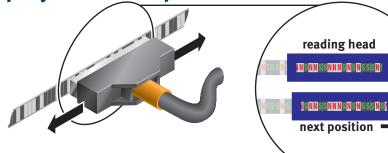
were developed for automated handling systems in material flow technology.

The control system can constantly query the absolute position

of the mobile consumer.

Operation

Vahle-APOS consists of a code strip with magnetic coding and a reading head with integrated logic, which transmits the position to the control system via the interface. The intelligent reading head determines the position from the code strip and evaluates it for downstream control systems for processing.



System advantages

- Integration with conductor bar systems for spacing saving solutions or independently in parallel to the runway
- retrofit to existing systems
- absolute position immediately available when switching on or after a power failure
- travel speed up to 12 m/s

- absolute position determination up to resistant to environmental conditions such as dust or humidity
 - unaffected by lighting conditions
 - optical version available see catalog

Overview of APOS components



The code strip comes factory assembled with a cross-magnetized specified code and given a digital length coding.



The code rail consists of the support profile (1), the code strip (2), and the sliding strip (3). The sliding strip provides guidance for the APOS LKG-17 reading head.



Sliding scanner for powerail systems U 10 and VKS



Contactless scanning for powerail systems KBH and MKH.



Guide carrier for the mounting of the LB contactless reading head for KBH and MKH conductor line



Logging of APOS to CANopen, Profibus DP and others.

Intelligent solutions... Integrated VAHLE conductor bar and APOS positioning systems

U 10



MKH

VKS 10











10-pole

11-pole

LB15-SSI Gray Standard-Schutz Standard-Schutz Standard-Schutz Standard-Schutz Standard-Schutz B15-RS485 IP54 IP54-Schutz F	RS485 SSI (Gray Code) SSI (binary code) RS485 SSI (Gray Code) SSI(Gray Code) RS485 SSI (Gray Code)	•	•	•			2823159 2823252 2823557 2823555 2823554
LB15-SSI Gray Standard-Schutz Standard-Schutz Standard-Schutz Standard-Schutz Standard-Schutz LB15-RS485 IP54 IP54-Schutz FLB15-SSI Gray IP54 IP54-Schutz Standard-Schutz Stan	SSI (Gray Code) SSI (binary code) RS485 SSI (Gray Code) SSI(Gray Code) RS485	•	•	•	•		2823252 2823557 2823555
LB15-SSI binary Standard-Schutz S LB15-RS485 IP54 IP54-Schutz F LB15-SSI Gray IP54 IP54-Schutz S	SSI (binary code) RS485 SSI (Gray Code) SSI(Gray Code) RS485	•	•	•			2823557 2823555
LB15-RS485 IP54 IP54-Schutz F LB15-SSI Gray IP54 IP54-Schutz S	RS485 SSI (Gray Code) SSI(Gray Code) RS485	•	•	•	•		2823555
LB15-SSI Gray IP54 IP54-Schutz S	SSI (Gray Code) SSI(Gray Code) RS485	•	•	•	•		
	SSI(Gray Code) RS485	•	•	•	•		2823554
Sliding reading head	RS485	•			•		
	RS485	•			•		
LLG-C 17 Single Arm (Long)		•				•	2823696
LLG-C 17 Single Arm (Long)	SSI (Gray Code)				•	•	2823693
LKG-A 17 Single Arm (Short)	Joi (Gray Couc)	•			•	•	2823681
LKG-A 17 Single Arm (Short)	RS485	•			•	•	2823626
Accessories							
SU - CAN Interface module		0			0	0	2823262
SU - Profibus für LB Interface module			0	0			2823263
SU - Profibus f. LKG u. LLG Interface module		0			0	0	2518699
SU - Interbus Interface module		0			0	0	2823264
CB 75 Code band 7.5 mm			•	•			2823254
CB 80 Sliding rail 8 mm		•			•	•	2823255
FP 20 Fixing profile							2823280
FP 25 Fixing profile			•	•			2823257
GB 80 Sliding rail 8 mm		•			•	•	2823446
TPA - U 10 - 6 Support profile		•					2823258
TPA - FABA 100 - 4 Support profile							2806571
TPA - VKS 10/10 - 6 Support profile					•		2823259
TPA - VKS 10/11 - 6 Support profile						•	2823265
LWK Reading head carrier			•				2823445
LWM Reading head carrier				•			2823261
ZAK Accessories			•	•			2823281
ZAM Accessories							2823282

 $[\]hbox{*Consult factory for additional model types}\\$

Products and Service

Catalog No. 7a | 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(T)	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, 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
Motor powered cable reels	9b
10 Port Technology	
eRTG Solutions	10a
11 Control Systems	
VAHLE-DETO	11a
12 Other	
Battery charging contacts	12a
VMT	12b
вок	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 Troubleshooting - Site inspection, maintenance, and repair



