

Read head CEM-A-LH10K-S3/CEM-A-LH10R-S3



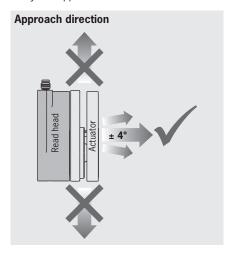
- Read head with solenoid
- Adhesive force 1000 N
- With and without remanence
- ▶ Up to categorie 4 according to EN ISO 13849-1



For possible combinations see page 24

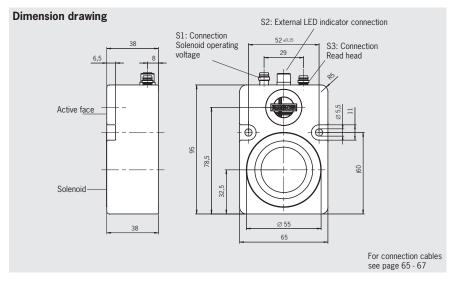
Remanence

Read heads without remanence are de-magnetized when the solenoid is switched off. For this purpose the operating voltage $\rm U_B$ must always be applied.



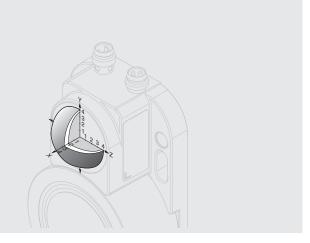
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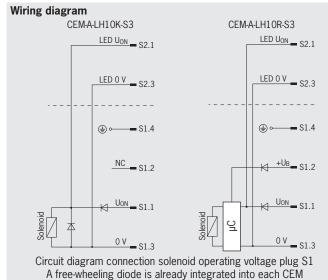




Typical operating distance

Safe switch-off distance Note s_{ar} = 20 mm for internal component failure. Safety outputs are safely switched off.





S2.1 ► LED U_{ON} S2.3 ▶ LED 0 V S2.2 ▶ S2.4 ▶ S1 島口 a S3 Solenoid operating **Evaluation unit CES** voltage S1.1 ► U_{ON}/DC 24 V S3.1 ▶ Data line +U_D/DC 24 V S3.3 ▶ Data line S1.3 ▶ 0 V/GND S3.4 ► SH (screen) S1.4 ▶ (1)

External LED indicator connection

Ordering table

Series	Adhesive force [N]	Туре	Order no / item
CEM-A-LH10K-S3	1000	With remanence	095 170 CEM-A-LH10K-S3
CEM-A-LH10R-S3	1000	Without remanence	095 793 CEM-A-LH10R-S3



Technical data read head CEM-A-LH10K-S3/CEM-A-LH10R-S3

Parameter		Value		Unit	
	min.	typ.	max.		
General					
Housing material	Aluminum				
Material, read head CES	Plastic (PPS)				
Solenoid material	Galvanized steel				
Weight		Approx. 0.9		kg	
Ambient temperature	-25	-	+50	°C	
Degree of protection according to IEC 60529		IP67			
Installation position		Any			
Solenoid					
Adhesive force in axial direction		1000		N	
Adhesive force due to remanence					
- CEM-A-LE10K-S2 1)	Approx. 40 ± 25 %			N	
- CEM-A-LE10R-S2	Approx. 0.7				
Solenoid center offset max.	± 2.5			mm	
Operating voltage U _B plug S1	24 +10%/-15%			V DC	
Solenoid voltage U _{oN} plug S1	24 +10%/-15%				
Reverse polarity protection		Yes			
Free-wheeling diode		Yes			
Current consumption CEM-ALH10K-S3					
- at connection S1.1 (U _{ON})	225 (without external LED)			mA	
Current consumption CEM-A-LH10R-S3					
- at connection S1.2 (U _B) at $U_{ON} = 0 \text{ V}$ at $U_{ON} = 24 \text{ V}$	12 225				
- at connection S1.1 (U _{oN})	15				
Power consumption		<u> </u>			
- CEM-A-LE05K-S2	Approx. 5.4				
- CEM-A-LE05R-S2	Approx. 5.8			W	
Solenoid operating voltage connection	M8 plug connector (male socket), 4-pin				
External LED indicator connection	M8 plug connector (female socket), 4-pin				
Read head	1110 p	- C	E **		
Operating distance for center offset m = 0					
- Assured switch-off distance S_{ar}	-	-	20		
Cable length I = 0 to 25 m			20		
- Switch-on distance	-	2	-	mm	
- Assured switch-on distance S _{an}	0		_		
- Switching hysteresis	_	0.7	-		
Connection evaluation unit plug S3	MΩ	plug connector (male socket), 3	R-nin		
Connection cable	- IVIO	pias connector (male socitet),	25	m	
Connection external LED indicator plug S2	-	-	20	m	
Current consumption			500	mA	
Current Consumption	1	-	200	IIIA	

¹⁾ The remanence disappears immediately when the door is opened and over time in de-energized solenoids.