ISD - Integral System Diagnostics

AES 1135/36, AES 1165/66, AES 1185 and AES 1235/36

Indication LED on green	Explanation of switching conditions • Enabling paths closed	
LED flashing green	 Enable delay time running, enabling paths open, only for AES 1185 	
LED flashing yellow (pulses approx. 0.5 Hz)	Guard device open	
LED flashing yellow (pulses approx. 2 Hz)	 Guard device closed but no authorised operation. Possible cause: Faulty operation (only one contact actuated when opening the guard) Voltage drop Feedback circuit not closed Start-up test not carried out, only for AES6 	3
Indication (yellow) LED one pulse	Explanation of switching conditions • Guard device 1 open	Only valid for: AES 1165/1166, AES 1185, AES 1265/1266, and AES 2165/2166
LED two pulses	• Guard device 2 open	
LED three pulses	Guard device 3 open, only for AES 1185	

AES 1135/36, AES 1165/66, AES 1185 and AES 1235/36

Indication (orange) LED one pulse	Fault • Inputs S1	Cause Incoming connection 	* Partial actuation Switch position in which only one con-
		to switch defective	tact has been actuated
		 Switch defective or fitted incorrectly Switch at least 5 s only 	Deletion of fault indication
		partially actuated*	The fault indication is deleted, when
		Cross-wire monitoring	its cause has been eliminated and the
			connected switch has been actuated
LED two pulses	 Inputs S2, only for AES 1165/1166, AES 1265/1266, AES 2165/2166 	 See fault inputs S1 Defective incoming connection 	to check all functions. (Open and re-close guard device)
	and AES 1185	to relay or relay contact	(Open and re-close guard device)
		Defective relay	
LED three pulses	 Inputs S1 + S2, only for AES 1165/1166, AES 1265/1266 	 See fault inputs S2 Defective incoming connection 	
	and AES 2165/2166	to relay or relay contact	
	Inputs S3, only for AES 1185	Defective relay	
LED four pulses	 Fault signals on the inputs, 	 Too high capacitive or inductive 	
	no secure evaluation,	coupling on the switch leads or	
	not for AES 1185	incoming power supply leads	
LED five pulses	One or both relays not pulled in	 Operating voltage U_e too low 	
	within a monitored time	Defective relay	
LED six pulses	Relay not dropped out on	• Wolded roley contact	
-	actuation of switch	Welded relay contact	
	• Dumamia manitaring of both	Fault on one channel	
LED seven pulses	 Dynamic monitoring of both channels (Cross-Monitoring) 	Fault on one channel Error in internal data transmission	
	not operating correctly	Too high capacitive or inductive	
	• Fault signals on the inputs,	coupling on input signal leads,	
	no safe evaluation,	only for AES 1185	
	only for AES 1185		