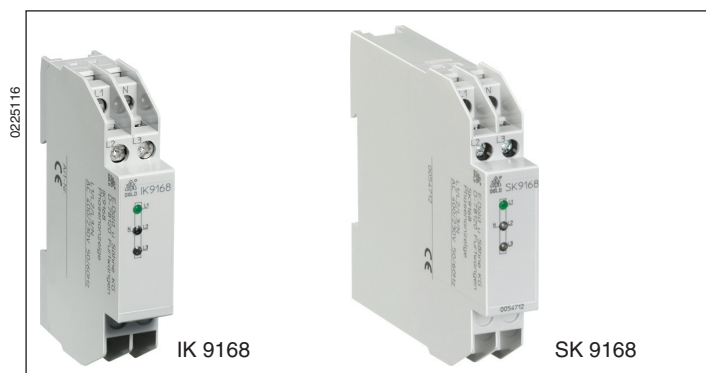
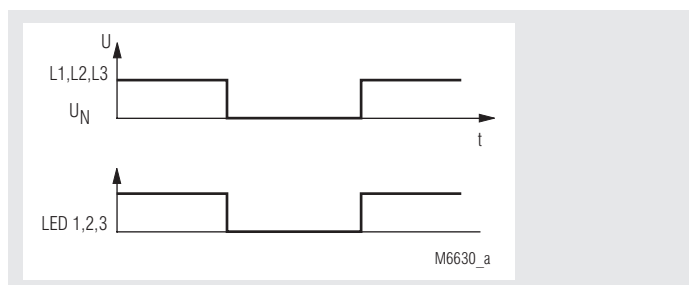


VARIMETER Phase Indicator IK 9168, SK 9168



- According to IEC/EN 60 255, DIN VDE 0435-303
- Indication of phase failure in 3-phase systems
- Single phase connection possible
- Independent of phase sequence
- LED indicator for each phase
- **Devices available in 2 enclosure versions:**
 - IK 9168:** depth 59 mm, with terminals at the bottom for installation systems and industrial distribution systems according to DIN 43 880
 - SK 9168:** depth 98 mm, with terminals at the top for cabinets with mounting plate and cable duct
- Width 17.5 mm

Function Diagram



Approvals and Marking



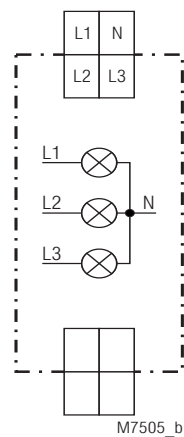
Applications

Indication of phase failure in 3-phase systems

Indicators

LED L1, L2, L3: on when corresponding phase is present

Circuit Diagram



IK 9168, SK 9168

Technical Data

Input

Nominal voltage U_N :	3/N AC 400 / 230 V
Voltage range:	0.8 ... 1.1 U_N
Input current at U_N :	0.2 mA
Nominal consumption:	0.5 VA per input
Nominal frequency:	50 / 60 Hz
Frequency range:	45 ... 65 Hz
Operate value:	0.5 $U_N \pm 10\%$

General Data

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 60°C	
Clearance and creepage distances		
rated impuls voltage / pollution degree (between L1-L2-L3-N):	4 kV / 2	IEC 60 664-1
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation:	10 V/m	IEC/EN 61 000-4-3
Fast transients:	2 kV	IEC/EN 61 000-4-4
Surge voltages between wires for power supply:	2 kV	IEC/EN 61 000-4-5
between wire and ground:	4 kV	IEC/EN 61 000-4-5
Interference suppression:	Limit value class B	EN 55 011
Degree of protection		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Housing:	Thermoplastic with V0 behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10 ... 55 Hz	IEC/EN 60 068-2-6
Climate resistance:	20 / 060 / 04	IEC/EN 60 068-1
Terminal designation:	EN 50 005	

Technical Data

Wire connection:	2 x 2.5 mm ² solid or 2 x 1.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1
Mounting:	DIN rail IEC/EN 60 715
Weight	
IK 9168:	50 g
SK 9168:	70 g

Dimensions

Width x height x depth

IK 9168:	17.5 x 90 x 59 mm
SK 9168:	17.5 x 90 x 98 mm

Standard Type

IK 9168	3/N AC 400 / 230 V	50/60 Hz	
Article number:	0049174		stock item
• Nominal voltage U _N :	3/N AC 400 / 230 V		
• Width:	17.5 mm		
SK 9168	3/N AC 400 / 230 V	50/60Hz	
Article number:	0054712		
• Nominal voltage U _N :	3/N AC 400 / 230 V		

Ordering example

IK 9168	3/N AC 400/230 V	50/60 Hz	
			Nominal frequency
			Nominal voltage
			Type