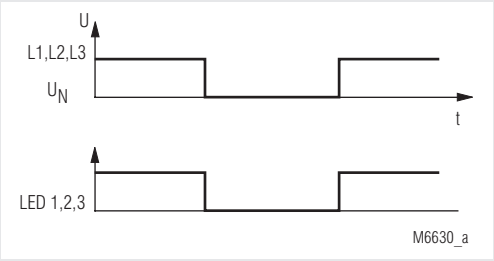
VARIMETER
Phase Indicator
IK 9168, SK 9168

0225116

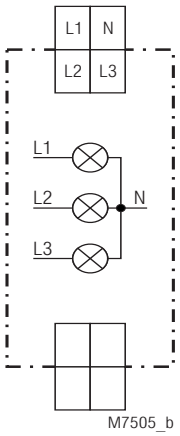


- According to IEC/EN 60 255, DIN VDE 0435-303
- Indication of phase failure in 3-phase systems
- Single phase connection possible
- Independent of phase sequence
- LED indicator for each phase
- **Devices available in 2 enclosure versions:**
  IK 9168: depth 59 mm, with terminals at the bottom for installation 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



Circuit Diagram



IK 9168, SK 9168

Approvals and Marking

CE

Applications

Indication of phase failure in 3-phase systems

Indicators

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

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 ± 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	

All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.

Technical Data

Wire connection:	2 x 2.5 mm² solid or 2 x 1.5 mm² 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

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