









Model number

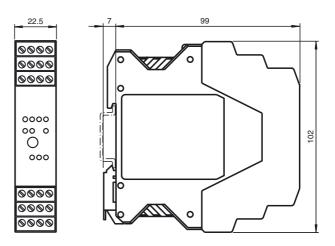
VBA-4E3A-KE-ZE/R

KE switch cabinet module 4 inputs (PNP) and 3 relay outputs

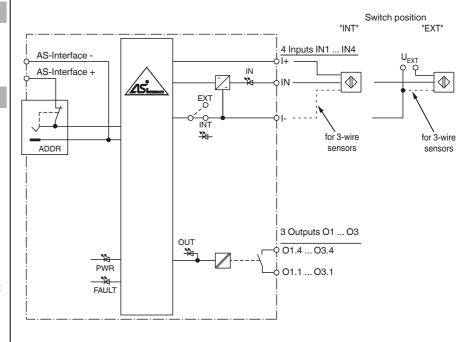
Features

- A/B slave with extended addressing possibility for up to 62 slaves
- Housing with removable terminals
- Communication monitoring
- Inputs for 2- and 3-wire sensors
- Isolated relay output
- Addressing jack
- Supply of inputs external or from the module, as required
- Function display for bus, internal input supply, inputs and outputs

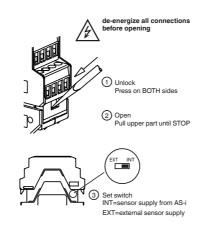
Dimensions

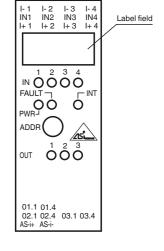


Electrical connection



Indicating / Operating means





Slave ype	Technical data			
AS-Interface specification V2-1 Required master specification V2-1 VIL File Number VITF _q Mission Time (T _M) Day Day Mission Time (T _M) Day Mission Mission Time (T _M) Day Mission Mis	General specifications			
Required master specification	Slave type		A/B slave	
LF IN Number	AS-Interface specification		V2.1	
Functional safety related parameters MITF ₀	Required master specification		≥ V2.1	
MITER 330 a Mission Time (Tim) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED FAULT Fault display; Red LED red: Communication fault or address is 0 red. flashing; Overload, internal input supply LED INT Internal input supply active; LED green AS-Interface voltage; LED green LED INT Switching state (input); 4 LED yellow LED OUT Switching point Switching state (input); 4 LED yellow LED OUT Switching point Switching Switching yellow Switching y	UL File Number		E106378	
MITER 330 a Mission Time (Tim) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED FAULT Fault display; Red LED red: Communication fault or address is 0 red. flashing; Overload, internal input supply LED INT Internal input supply active; LED green AS-Interface voltage; LED green LED INT Switching state (input); 4 LED yellow LED OUT Switching point Switching state (input); 4 LED yellow LED OUT Switching point Switching Switching yellow Switching y	Functional safety related parame	eters		
Mission Time (T _M)		01013	330 a	
Diagnostic Coverage (DC) 10 %	•			
Indicators/operating means				
LED FAULT Fault display; Red LED red: Communication taul or address is 0 red. flashing; Overload, internal input supply	Diagnostic Coverage (DC)		0 %	
LED INT	Indicators/operating means			
red, flashing: Overload, internal input supply	LED FAULT		Fault display; Red LED	
LED INT				
LED NWR			red, flashing: Overload, interna	al input supply
LED IN	LED INT		Internal input supply active; LE	ED green
LED OUT	LED PWR		AS-Interface voltage; LED gre	en
Auxiliary voltage (input) U _{EXT} 12 30 V DC PELV	LED IN		switching state (input); 4 LED	yellow
Auxiliary voltage (input) U _{EXT} 12 30 V DC PELV	LED OUT		• , , ,	•
Auxiliary voltage (input) UEXT 1230 V DC PELIV			omiciming diale (darpary, d ===	2 , 0011
Rated operating voltage	•		10 00 1/ 00 05 11/	
Rated operating current I ₆				
Surge protection	Rated operating voltage	U_e	26.5 31.6 V from AS-Interfa	ce
	Rated operating current	l _e	≤ 35 mA (without sensors) / m	ax. 235 mA
	Surge protection		O1 O3: Over voltage catego	ory II
Number/Type	3 .			
Number/Type 4 inputs for 2- or 3-wire sensors (PNP), DC Supply from AS-Interface (switch position INT, basic setting) or exter UpExT (switch position EXT) Voltage 213 t V DC (INT) Current loading capacity ≤ 150 mA, overload- and short-circuit protected (INT) Input current ≤ 8 mA (limited internally) Switching point according to DIN EN 61131-2 (Type 2) 0 (unattenuated) ≤ 2 mA 1 (attenuated) ≥ 4 mA Signal frequency ≤ 250 Hz Output Signal frequency Output Signal frequency Output 3 relay outputs, normally open none Nominal load Per contact Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact Per contact 10 mA / 5 V DC Switching off power 500 VA Switching off power 500 VA Switching frequency f < 20 Hz (without load)				
Number/Type 4 inputs for 2- or 3-wire sensors (PNP), DC Supply from AS-Interface (switch position INT, basic setting) or exter UpExT (switch position EXT) Voltage 213 I V DC (INT) Current loading capacity ≤ 150 mA, overload- and short-circuit protected (INT) Input current ≤ 8 mA (limited internally) Switching point according to DIN EN 61131-2 (Type 2) 0 (unattenuated) ≤ 2 mA 1 (attenuated) ≥ 4 mA Signal frequency ≤ 2 mS Output 2 ma Number/Type 3 relay outputs, normally open none Nominal load Per contact Per module 6 A Minimum load Per contact Per contact 10 mA / 5 V DC Switching off power 500 VA Switching dip flower 500 VA Switching frequency f < 20 Hz (without load)	Input			
Supply	•		4 inputs for 2- or 3-wire sense	re (DND) DC
Voltage	71		•	, ,,
Voltage 21 31 V DC (INT) Current loading capacity ≤ 150 mA, overload- and short-circuit protected (INT) Input current ≤ 8 mA (limited internally) Switching point according to DIN EN 61131-2 (Type 2) 0 (unattenuated) ≥ 2 mA 1 (attenuated) ≥ 4 mA Signal delay < 2 ms (input/AS-Interface)	Supply			nion in i, basic setting) or exter
Current loading capacity ≤ 150 mA, overload- and short-circuit protected (INT) Input current ≤ 8 mA (limited internally) Switching point according to DIN EN 61131-2 (Type 2) 0 (unattenuated) ≤ 2 mA Signal delay < 2 ms (input/AS-Interface)	\/-lk			
Input current			, ,	
Switching point according to DIN EN 61131-2 (Type 2) 0 (unattenuated) ≤ 2 mA 1 (attenuated) ≥ 4 mA Signal delay < 2 ms (input/AS-Interface)	Current loading capacity		≤ 150 mA, overload- and shor	t-circuit protected (INT)
0 (unattenuated) ≤ 2 mA 1 (attenuated) ≥ 4 mA Signal delay < 2 ms (input/AS-Interface) Signal frequency ≤ 250 Hz Output Number/Type 3 relay outputs, normally open none Nominal load Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching delay < 10 ms (AS-Interface/contact) Usage category DC-13 and AC-14 Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load) Switching frequency f < 2.0 Hz (without load) < 0.5 x 10 ⁶ switching cycles (40 V DC, 2 A, cos φ = 1) 0.45 x 10 ⁶ switching cycles (253 V AC, 2 A, cos φ = 0.7) Electrical isolation Input/Output Injut/Output Injut/Output Injut/Output Old (and insulation voltage 278 V AC) Old (and insulation voltage 278 V AC) Old (and insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 278 V AC) Output/AS-Interface series isolation acc. to EN 60947-1, rated insulation voltage 2	Input current		≤ 8 mA (limited internally)	
1 (attenuated) ≥ 4 mA Signal delay < 2 ms (input/AS-Interface) Signal frequency ≤ 250 Hz Output Number/Type 3 relay outputs, normally open none Nominal load Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching off power DC-13 and AC-14 Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load) Switching Mechanical 30 x 10 ⁶ Electrical isolation Input/Output 11 In 10 to 01 C3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O3 to O3: basic insulation voltage 278 V AC O4 to O4: D4 CA	Switching point		according to DIN EN 61131-2	(Type 2)
1 (attenuated) ≥ 4 mA Signal delay < 2 ms (input/AS-Interface) Signal frequency ≤ 250 Hz Output Number/Type 3 relay outputs, normally open none Nominal load Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching off power DC-13 and AC-14 Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load) Switching Mechanical 30 x 10 ⁶ Electrical isolation Input/Output 11 In 10 to 01 C3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O2 to O3: basic insulation voltage 278 V AC O3 to O3: basic insulation voltage 278 V AC O4 to O4: D4 CA	0 (unattenuated)		≤ 2 mA	
Signal delay < 2 ms (input/AS-Interface)	, ,		> 4 mA	
Signal frequency ≤ 250 Hz Output Number/Type 3 relay outputs, normally open Supply none Nominal load Fer contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Fer contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching delay < 10 ms (AS-Interface/contact)	,			
Output Number/Type 3 relay outputs, normally open Supply none Nominal load Per contact Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching off power 500 VA Switching frequency f < 20 Hz (without load)	=			
Number/Type 3 relay outputs, normally open Supply none Nominal load Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching delay < 10 ms (AS-Interface/contact) Usage category DC-13 and AC-14 Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load) Switching Wechanical 30 x 10 ⁶ Electrical 1 x 10 ⁶ switching cycles (253 V AC, 2 A, cos φ = 1) 0.5 x 10 ⁶ switching cycles (253 V AC, 2 A, cos φ = 0.7) Electrical isolation Input/Output Input/Output Input/Output Input/Number Input/Output Input/Output Input/Output Input/Number Input/Output	Signal frequency		≤ 250 HZ	
Supply	Output			
Nominal load max. 2 A / 30 V DC; 2 A / 250 V AC Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching off power 500 VA Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load)	Number/Type		3 relay outputs, normally open	ı
Nominal load max. 2 A / 30 V DC; 2 A / 250 V AC Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching off power 500 VA Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load)	Supply		none	
Per contact max. 2 A / 30 V DC; 2 A / 250 V AC Per module 6 A Minimum load Per contact 10 mA / 5 V DC Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching delay < 10 ms (AS-Interface/contact)	Nominal load			
Per module	Per contact		max 2 A / 30 V DC: 2 A / 250	V AC
Minimum load Per contact 10 mA / 5 V DC				17.0
Per contact			0 A	
Short-circuit-proof Contact: 500 A / 40 ms Switching off power 500 VA Switching delay < 10 ms (AS-Interface/contact)				
Switching off power 500 VA Switching delay < 10 ms (AS-Interface/contact)				
Switching delay Canal Content	Short-circuit-proof		Contact: 500 A / 40 ms	
Usage category DC-13 and AC-14 Switching frequency f < 20 Hz (without load)	Switching off power		500 VA	
Usage category DC-13 and AC-14 Switching frequency f < 20 Hz (without load)	Switching delay		< 10 ms (AS-Interface/contact	()
Switching frequency f < 20 Hz (without load) < 0.1 Hz (nominal load) Switching Mechanical 30 x 10 ⁶ Electrical 1 x 10 ⁶ switching cycles (40 V DC, 2 A, ohmic) 0.5 x 10 ⁶ switching cycles (253 V AC, 2 A, cos φ = 1) 0.45 x 10 ⁶ switching cycles (253 V AC, 2 A, cos φ = 0.7) Electrical isolation Input/Output IN1 IN4 to O1 O3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Input/AS-Interface none Output/Output O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O4 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 IN1 O1 IN2 O2	Usage category		DC-13 and AC-14	
Switching	0 0 ,	f	< 20 Hz (without load)	
Switching Mechanical Blectrical 1×10^6 switching cycles (40 V DC, 2 A, ohmic) 0.5×10^6 switching cycles (253 V AC, 2 A, $\cos \phi = 1$) 0.45×10^6 switching cycles (253 V AC, 2 A, $\cos \phi = 0.7$) Electrical isolation Input/Output IN1 IN4 to O1 O3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Input/AS-Interface Output/Output O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code O Data bits (function via AS-Interface) input output O1 IN1 O1 IN2 O2	Gwitering frequency	•		
Mechanical 30×10^6 Electrical 1×10^6 switching cycles (40 V DC, 2 A, ohmic) 0.5×10^6 switching cycles (253 V AC, 2 A, cos φ = 1) 0.45×10^6 switching cycles (253 V AC, 2 A, cos φ = 0.7)Electrical isolationIN1 IN4 to O1 O3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V ACInput/AS-InterfacenoneOutput/OutputO1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V ACOutput/AS-Interfacesafe isolation acc. to EN 60947-1, rated insulation voltage 278 V ACProgramming instructionsS-7.A.0Prodee 7 ID code 7 ID code 7 ID code 7 ID2 code 7 ID2 code 7 ID3 code 7 ID4 bits (function via AS-Interface)input outputD0IN1O1D1IN2O2	Switching		(o. 1 112 (nonlina load)	
Electrical $ \begin{array}{c} 1 \times 10^6 \text{ switching cycles } (40 \text{ V DC, 2 A, ohmic)} \\ 0.5 \times 10^6 \text{ switching cycles } (253 \text{ V AC, 2 A, cos } \phi = 1) \\ 0.45 \times 10^6 \text{ switching cycles } (253 \text{ V AC, 2 A, cos } \phi = 0.7) \\ \hline \textbf{Electrical isolation} \\ \hline \\ \text{Input/Output} & \text{IN1 IN4 to O1 O3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC} \\ \hline \\ \text{Input/AS-Interface} & \text{none} \\ \hline \\ \text{Output/Output} & \text{O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC} \\ \hline \\ \text{O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC} \\ \hline \\ \text{Output/AS-Interface} & \text{safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC} \\ \hline \\ \textbf{Programming instructions} \\ \hline \\ \text{Profile} & \text{S-7.A.0} \\ \hline \\ \text{IO code} & \text{7} \\ \hline \\ \text{ID code} & \text{A} \\ \hline \\ \text{ID1 code} & \text{7} \\ \hline \\ \text{ID2 code} & \text{0} \\ \hline \\ \textbf{Data bits (function via AS-Interface)} & \textbf{input} & \textbf{output} \\ \hline \\ \text{D0} & \text{IN1} & \text{O1} \\ \hline \\ \text{IN2} & \text{O2} \\ \hline \end{array}$	•		20 × 106	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
Description	Electrical		1 x 10° switching cycles (40 V	DC, 2 A, ohmic)
Electrical isolation Input/Output IN1 IN4 to O1 O3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Input/AS-Interface Output/Output O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code Data bits (function via AS-Interface) input output O1 IN1 O1 IN2 O2				
Input/Output IN1 IN4 to O1 O3: safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Input/AS-Interface none Output/Output O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 IN2 O2			0.45 x 10° switching cycles (2	53 V AC, 2 A, $\cos \phi = 0.7$)
rated insulation voltage 278 V AC Input/AS-Interface none Output/Output O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 IN2 O2	Electrical isolation			
Input/AS-Interface Output/Output Output/Output Output/Output Output/Output Output/Output Output/Output Output/AS-Interface Output/AS-Interface Output/AS-Interface Safe isolation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface Safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code Output/AS-Interface Input Output Output/AS-Interface Input Output Outp	Input/Output		IN1 IN4 to O1 O3: safe is	solation acc. to EN 60947-1,
Output/Output O1 to O2, O3: safe isolation according to EN 60947-1, rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2			rated insulation voltage 278 V	AC
rated insulation voltage 278 V AC O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 IN2 O2	Input/AS-Interface		none	
O2 to O3: basic insulation according to EN 60947-1, rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2	Output/Output		O1 to O2, O3: safe isolation a	ccording to EN 60947-1,
rated insulation voltage 278 V AC Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2			rated insulation voltage 278 V	AC
Output/AS-Interface safe isolation acc. to EN 60947-1, rated insulation voltage 278 V AC Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2				
Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2			•	
Programming instructions Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2	Output/AS-Interface		safe isolation acc. to EN 6094	7-1,
Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2			rated insulation voltage 278 V	AC
Profile S-7.A.0 IO code 7 ID code A ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2	Programming instructions			
IO code			S-7 A 0	
ID code				
ID1 code 7				
ID2 code 0 Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2	ID code		Α	
Data bits (function via AS-Interface) input output D0 IN1 O1 D1 IN2 O2	ID1 code		7	
D0 IN1 O1 D1 IN2 O2	ID2 code		0	
D0 IN1 O1 D1 IN2 O2		ce)	input	output
D1 IN2 O2	,	-,	•	•
D2 IN3 O3	וט			
				Ω3

Function

The AS-Interface VBA-4E3A-KE-ZE/R I/O module is a switch cabinet module with 4 inputs and 3 relay outputs. The housing, only 22.5 mm in width, takes up little place in the switch cabinet. The VBA-4E3A-KE-ZE/R can be mounted by snapping it onto the 35 mm carrier rail in accordance with EN 50022.

Plug-in terminals are used for connection. 4X terminal blocks (black) are used for the inputs. Double terminal blocks (red outputs, yellow AS-Interface) are used to connect outputs and the AS-Interface. This makes it possible to separate individual actuators or to supply power during commissioning or servicing.

Either the module (from the AS-Interface) or an external power source are used to supply power to the inputs and the connected sensors. One switch in the device is used for switching. The selection of the internal input power supply is displayed on the INT LED. An LED on the front control plate is used to display the current switching state for each input and output.

Note:

The device is equipped with communication monitoring that turns off the outputs if no AS-Interface communication has taken place with the device for more than 40 ms.

An overload of the internal input supply is reported by the 'periphery error' to the AS-Interface master. Communication over the AS-Interface remains in effect.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1-V3.0

AS-Interface Handheld

VAZ-PK-1,5M-V1-G

Adapter cable module/hand-held programming device

Release date: 2014-11-07 08:25 Date of issue: 2014-11-07 114307_eng

Parameter bits (programmable via AS-i)	function	
P0	not used	
P1	not used	
P2	not used	
P3	not used	
Ambient conditions		
Ambient temperature	-25 60 °C (-13 140 °F)	
Storage temperature	-25 85 °C (-13 185 °F)	
Relative humidity	90 % , noncondensing	
Pollution Degree	2	
Mechanical specifications		
Degree of protection	IP20	
Connection	removable terminals rated connection capacity: rigid/flexible (with and without wire-end ferrules): 0.25 mm² 2.5 mm² for multiple-wire connection with two wires of equal cross-section: flexible with twin wire-end ferrules: 0.5 mm² 1.5 mm²	
Material		
Housing	PA 66-FR	
Mass	170 g	
Mounting	DIN mounting rail	
Compliance with standards and directives		
Directive conformity		
Low Voltage Directive 73/23/EEC	EN 60947-1:2007	
EMC Directive 2004/108/EC	EN 61000-6-2:2005, EN 61000-6-4:2007, EN 50295:1999	
Standard conformity		
Electromagnetic compatibility	NAMUR NE 21: 1998-08	
Noise immunity	EN 61000-6-2:2005	
Emitted interference	EN 61000-6-4:2007	
AS-Interface	EN 50295:1999	
Input	EN 61131-2:2004	
Usage category	EN 60947-5-1	
Electrical isolation	EN 60947-1	
Degree of protection	EN 60529:2000	

Notes

Installation, commissioning, maintenance:

The device has to be installed into a separate electrical operation facility with access only for electrical professionals or instructed persons.

EN 60947-5-1

The plug connectors must not be connected or disconnected under power.

The operator is responsible for complying with rights, guidelines and standards according to the intended or planned use.

Bundled devices:

Pollution Degree

Isolation to external surfaces: basic isolation according to EN 60947-1, no basic isolation to terminals.

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.