

3RG4 BERO Inductive Proximity Switches

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				3RX7 127-1AA	10/186	3RX7 922	10/190
				3RX7 131-0AZ	10/186	3RX7 924	10/190
				3RX7 131-0CF	10/186	3RX7 940	10/189
				3RX7 131-0FA	10/186	3RX7 941	10/189
				3RX7 131-1AA	10/186	3RX7 942	10/189
				3RX7 201-0AZ	10/186	3RX7 943	10/189
				3RX7 201-0CF	10/184	3RX7 944	10/189
				3RX7 201-0FA	10/184	3RX7 945	10/189
				3RX7 201-1AA	10/184		

3RG4 BERO Inductive Proximity Switches

Description

Application

BERO proximity switches are solid-state position switches which can be operated without contact and containing no mechanical parts subject to wear. They are generally insensitive to hostile environments. They are mainly used for applications requiring extremely high levels of reliability, switching point accuracy, endurance, operating frequency, operating speed, etc.

- Operating distance acc. to German standard
- The actuation distance is between 0 and 81% of the rated operating distance.

Advantages

- Minimum wiring requirements
- Direct replacement of mechanical position switches possible in plants which are not safety-oriented
- Power supply from PLC input
- npn as well as pnp switching.

Mode of operation

A high frequency alternating field is generated in the BERO switch and emerges at the "sensing face". The physical size of this undamped field determines the "range" of the switch. When a material which is a good conductor of electricity and/or magnetism comes into close proximity with the sensing face, the field becomes damped. Both states (field damped or undamped) are evaluated by the BERO switch and result in a change in the output signal of the switch.

③ BERO for high electrical requirements

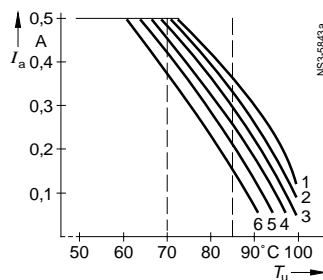
- Voltage range
BERO with 3 cores: DC 10 to 65 V
BERO with 2 cores: AC/DC 20 to 320 V
- Output
BERO with 3 cores: 1 NO or 1 NC
pnp up to 300 mA
BERO with 2 cores: 1 NO or 1 NC, resistive load up to 300 mA
- Operating frequency up to 5000 Hz (M8)
- The actuation distance is between 0 and 81% of the rated operating distance.

Advantages

- Problem-free matching to various operational voltages
- Insensitive against voltage deviations

Derating characteristics

3RG41 23, 3RG41 24
in direct voltage version



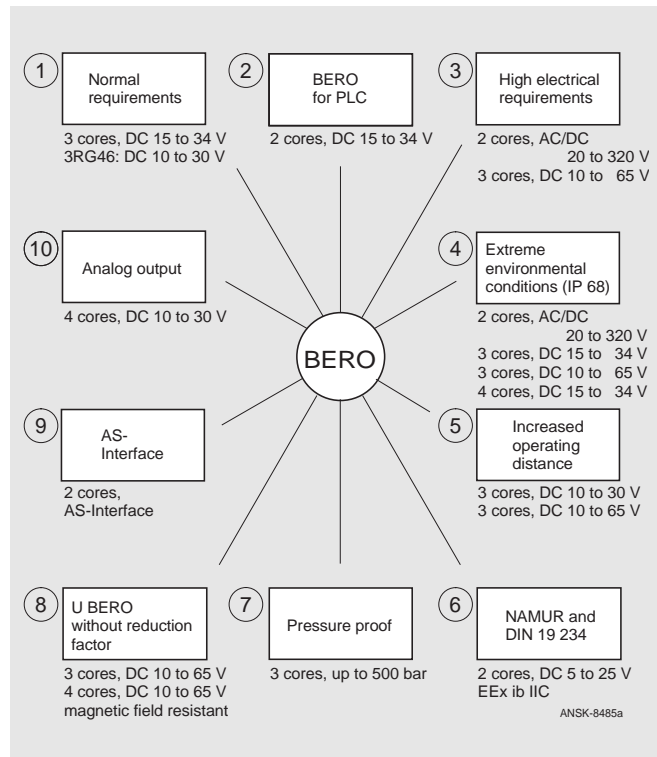
- 1: $U_b = 10$ V
- 2: $U_b = 20$ V
- 3: $U_b = 30$ V
- 4: $U_b = 40$ V
- 5: $U_b = 50$ V
- 6: $U_b = 65$ V

① BERO for normal requirements

- Voltage range: DC 15 to 34 V
3RG46: DC 10 to 30 V
- Output
BERO with 3 cores: 1 NO or 1 NC up to 200 mA
BERO with 4 cores: 1 NO and 1 NC (non-equivalent) pnp up to 200 mA
- Operating frequency up to 3000 Hz (4 mm dia.)
- Operating distance acc. to German standard
- The actuation distance is between 0 and 81% of the rated operating distance.

② BERO for PLC (2 cores)

- Voltage range: DC 15 to 34 V
- Output
BERO with 2 cores: 1 NO up to 25 mA
- Residual current and voltage drop matching PLC inputs
- Operating frequency up to 1500 Hz (8 mm dia., M 8)



④ BERO for extreme environmental conditions (IP 68)

- Voltage range
BERO with 2 cores: AC/DC 20 to 320 V
BERO with 3 cores: DC 15 to 34 V
DC 10 to 65 V
BERO with 4 cores: DC 15 to 34 V
- Output
BERO with 3 cores: 1 NO or 1 NC
pnp up to 300 mA
BERO with 4 cores: 1 NO and 1 NC (non-equivalent) pnp up to 200 mA
- The actuation distance is between 0 and 81% of the rated operating distance.

Advantages

- Can be used under extreme environmental conditions acc. to degree of protection IP 68 by employment of a particularly tight housing with specific casting compound.

⑤ BERO with increased operating distance

- Voltage range: DC 10 to 65 V (for 3RG46: DC 10 to 30 V)
- Output
BERO with 3 cores: 1 NO or 1 NC
pnp up to 300 mA
- Operating frequency up to 1000 Hz (6.5 mm dia.)
- Operating distance considerably higher than German standard: Up to 3 times the standard rated operating distance
- The actuation distance is between 0 and 81% of the rated operating distance.

Advantages

- Large leeway for installation alignment
- Possibility of selecting a smaller size with the operating distance required
- Compensation of the reduction of the actuation distance where non-ferrous metals are involved.

⑥ BERO acc. to NAMUR and DIN 19 234

- Intrinsically safe, for use in hazardous areas (not in zone 0!)
- Voltage range: DC 5 to 25 V (can be expanded by series-connection switching devices)
- Output 2-wire current loop for series-connection switching devices (continuous-curve tripping characteristic)
- Operating frequency up to 5000 Hz (4.5 mm dia., M 8)
- Operating distance acc. to German standard
- The actuation distance is between 0 and 81% of the rated operating distance.

Advantages

- Intrinsically safe, EEx ib IIC, certified by PTB (No. Ex-88.B.2145)
- Small versions
- Matching SIMATIC NAMUR input modules
- Open-circuit or short-circuit monitoring by series-connection switching devices.

⑦ Pressure-proof BERO

- Up to 500 bar:
- Voltage range: DC 10 to 30 V
 - BERO with 3 cores: 1 NO pnp up to 200 mA
 - Operating frequency up to 400 Hz
 - Operating distance: 3 mm

Advantages

- Suitable for extremely dynamic mechanical stress
- Easy to install: the BERO switch can be screw-fastened against the stop; there is no adjustment required.
- Front gas tight.

⑧ U BERO without reduction factor

- Voltage range BERO with 3 cores: DC 10 to 65 V BERO with 4 cores: DC 10 to 65 V
- Output: BERO with 3 cores: 1 NO pnp up to 200 mA BERO with 4 cores: 1 NO and 1 NC pnp up to 200 mA
- Operating frequency up to 3000 Hz

Advantages

- No reduction factor with non-ferrous metals
- Magnetic field resistant, i. e. these BERO switches are insensitive to welding current. Magnetic field resistant up to 160 mT rms = 21 kA at 25.4 mm; exceptions: 3RG46 44: 120 mT eff. 3RG46 43: 60 mT eff.

⑨ BERO for AS-Interface

- For connection directly to the AS-Interface
- Outputs:
 - Operating distance
 - Safe operating distance
 - Coil monitoring

Advantages

- Simple connection directly to the AS-Interface.

⑩ BERO with analog output

- Voltage range DC 10 to 30 V
- Output
 - Voltage output DC 0 to 5 V
 - Current output 1 to 5 mA
- Protection against short-circuit, induction protection, all-round integrated reversal protection
- Non linearised version
- Connection via cable or S12 plug

Integrated protective measures

Protection of most versions against

- Short-circuit and overload (DC)
- Polarity reversal of all terminals
- Wire break (connection L– or L+)
- Spurious switching signal
- Surge peaks
- Radio frequency interference.

Cables

Generally high-flexibility cables with oil-resisting outer sheath of polyurethane (PUR) are used. They are 2 m long as standard.

For applications where cables come into contact with acids or lyes please order devices with PVC cables.

Other cable lengths and materials on request.

Plug and socket connections

Standard for cylinder versions are 8 mm plugs or plugs with M 12 threads (3- or 4-pole). A plug (with socket insert) is additionally required for the plug and socket connections (see Accessories). Plugs with M 18 thread (3-pole) or Amphenol/Tuchel plugs (5-pole) are also available for the M 18 and M 30 versions.

Standards and specifications

IEC 60 947-5-2.

Electromagnetic compatibility

All inductive BERO switches meet the protection requirements of EMC guideline no. 89/336/EWG. This is proved by application of standard prEN 60 947-5-2 and certified by the department in charge.

The following EMC standards are applicable for individual tests:

ENV 50 140, EN 55 011, EN 55 022, ENV 50 141, IEC 61 000-4-2, IEC 61 000-4-4.

Approvals

Devices 3RG40, 3RG41 with M 12, M 18, AMP plugs or terminal compartments are UL- and CSA approved. Please order PVC cable for devices with a connecting cable (see page 10/7 "Special designs").

For complete overview see Part 17.

Notes for use in zone 2

in acc. with DIN VDE 0165/2.91, section 6.3

The proximity switches with the following order references

- 3RG40 . . .
- 3RG41 . . .
- 3RG46 . . .

can be used in zone 2 in acc. with DIN VDE 0165 section 6.3.

The following requirements are fulfilled and/or must be taken into consideration.

The proximity switches work on a no-contact basis. There are no sparks or arcs during operation.

The maximum surface temperature relative to the ambient temperature is +50 K.

The requirements for degree of protection IP 54 are fulfilled.

Units with plug and socket devices should be locked such that devices can only be plugged or unplugged when there is no voltage. They must be fitted with a warning sign saying "Do not touch while under load".

In addition, the general regulations in the norm DIN VDE 0165 concerning the installation of electrical equipment in hazardous duty areas must be complied with.

3RG4 BERO Inductive Proximity Switches

Technical data

Switching hysteresis H		$H \leq 0.2 s_r$
Cable length max. permissible (unscreened)	AC DC	100 m 300 m
Degree of protection	Encapsulated cable Connector with cable plug Terminal compartment For extreme environmental conditions	IP 67 IP 67 IP 65 IP 68
Ambient temperature	In operation When stored	-25 to +85 °C ¹⁾ 2) -40 to +85 °C ¹⁾
Shock resistance		30 × g, 18 ms duration
Resistance to vibration		55 Hz, 1 mm amplitude
Reduction factors		
U BERO		1
BERO for embeddable mounting/ non-embeddable mounting (representative values)	Stainless steel Al Cu Ms	0.7 to 0.9 0.35 to 0.5 0.2 to 0.4 0.3 to 0.6
Voltage drop		
2-core BERO	DC; AC/DC 3RG40, 3RG41 3RG46	≤ 8 V ≤ 6.5 V
3-core BERO	Normal and increased electrical requirements	≤ 2.5 V
4-core BERO	Increased operating distance	≤ 3.2 V ≤ 2.5 V

Form	Material	Tightening-torque Nm
M 8	Stainless steel	5
	Brass	2
M 12	Brass	10
	Moulded plastic	1
	Stainless steel	25
M 14	Moulded plastic	0.5
M 18	Brass	20
	Moulded plastic	3
	Stainless steel	50
M 30	Brass	40
	Moulded plastic	5
	Stainless steel	100

Special designs

Special cable lengths

All inductive 3RG40/41 BEROs can be delivered with longer connecting cable (PUR).

All inductive 3RG46 BEROs can be delivered with longer connecting cable (PUR). Minimum order: 50 units.

Delivery time on request.

Additional price per m.

Please add "**Z**" to the order number and indicate the code for the desired length:

Up to 9.9 m with a step length of 0.1 m:

Code **A10** cable 1.0 m:

A11 cable 1.1 m:

A99 cable 9.9 m:

From 10 m with a step length of 1 m:

Code **B10** cable 10 m:

B99 cable 99 m:

Example: **3RG40 12-0AB00-Z**

B10

Stainless steel housing

All cylindrical inductive 3RG4 BEROs (from type M 12 onwards) with metal housing are also available in stainless steel.

Supply information on request.

Extended temperature range

3RG40 BEROs are available for an operating temperature of -40 to +100 °C.

Additional price.

Supply information only on request.

Connection to AS-Interface

All inductive 3RG40 and 3RG41 BEROs with Pg 13.5 thread can be connected to the AS-Interface with an adapter. In this case please add "**Z**" and the code "**C01**" to the order number.

1) With 3RG41 and 3RG46 up to +70 °C.

2) Max. switching current 3-core BERO for normal requirements at an operating temperature of >50 °C is 150 mA.

Special cables

All inductive 3RG4 BEROs can also be delivered with other cable types – see table below.

Please add "**-Z**" to the order number and indicate the desired cable type and length in plain text.

(3RG46 . . . on request!)

If UL and CSA approbation are requested, order the approved PVC cable.

Delivery information and price on request.

Design with cable (standard 2 m PUR cable or PVC)

	Cable type	Outer diameter mm	Permissible cross-section
			mm ²
2-core BERO	LiYY11Y (PUR)	4.5	2 × 0.25
	PVC (UL + CSA approved)	4.5	2 × 0.56
3-core BERO	LiYY11Y (PUR)	4.5	3 × 0.25
	PVC (UL + CSA approved)	4.8	3 × 0.56
	PVC (oil-resisting)	4.6	3 × 0.25
	Teflon	4.0	3 × 0.55
	Silicone	5.5	3 × 0.25
4-core BERO	LiYY11Y (PUR)	4.5	4 × 0.14
	PVC (UL + CSA approved)	5.3	4 × 0.34
	PVC (oil-resisting)	4.6	4 × 0.14
	Teflon	4.3	4 × 0.55