

BERO Proximity Switches

Inductive BEROs

Operating distance 8 mm

2

Technical specifications

Class		Standard 3-wire	Standard 3-wire	Standard 4-wire
No. of connecting wires		M 18, Shorty	M 18	M 18
Form		Unshielded	Unshielded	Unshielded
Embeddable in metal				
Rated operating distance s_n		8 mm	8 mm	8 mm
Enclosure material		Brass, nickel-plated	Brass, nickel-plated	Brass, nickel-plated
Operational voltage (DC)	V	15 ... 34	15 ... 34	15 ... 34
No-load supply current I_0	mA	≤ 17 (24 V); ≤ 30 (34 V)	≤ 17 (24 V); ≤ 30 (34 V)	≤ 25 (24 V); ≤ 40 (34 V)
Rated operating current I_e	mA	200 (≤ 50 °C); 150 (≤ 85 °C)	200 (≤ 50 °C); 150 (≤ 85 °C)	200 (≤ 50 °C); 150 (≤ 85 °C)
Switching frequency f	Hz	500	500	500
Repeat accuracy R	mm	0.2	0.2	0.2
Power-up delay t_v	ms	40	40	40
Switching status display		Yellow LED	Yellow LED	Yellow LED
Protective measures				
• Spurious signal suppression		•	•	•
• Short-circuit-proof/overload-proof		•	•	•
• Reverse polarity protection		•	•	•
• Wire-break protection		•	•	•
• Inductive interference protection		•	•	•
• Radio interference protection		•	•	•
Degree of protection		IP67	IP67	IP67
Type		3RG40 23--A.33, 3RG40 23--G.33	3RG40 23--A.01, 3RG40 23--G.00	3RG40 23--CD00

Selection and ordering data

Switching output	Circ. diag. No.	Con- nector type	Order No.	Order No.	Order No.
With 2 m cable, PUR			$3 \times 0.25 \text{ mm}^2$	$3 \times 0.25 \text{ mm}^2$	$4 \times 0.14 \text{ mm}^2$
NO contact, pnp	11		3RG40 23--0AG33	3RG40 23--0AG01	—
NC contact, pnp	12		3RG40 23--0AF33	3RG40 23--0AF01	—
NO contact, npn	13		3RG40 23--0GB33	3RG40 23--0GB00	—
NC contact, npn	14		3RG40 23--0GA33	—	—
NO and NC contacts, 10 pnp			—	—	3RG40 23--0CD00
With M 12 connector					
NO contact, pnp	2	E, F	3RG40 23--3AG33	3RG40 23--3AG01	—
NC contact, pnp	3	F	3RG40 23--3AF33	3RG40 23--3AF01	—
NO contact, npn	4	E, F	3RG40 23--3GB33	3RG40 23--3GB00	—
NC contact, npn	5	F	3RG40 23--3GA33	—	—
NO and NC contacts, 1 pnp		F	—	—	3RG40 23--3CD00

Dimension drawings

Mounting instructions

