

RG008 Flexible Gooseneck Tube

Adjustable Metal Conduit with Magnetic Base

M8 / M12 / M18 Thread Options

User Manual

Version 1.0

Kemotronics

1. PRODUCT OVERVIEW

The RG008 series is a flexible gooseneck tube (flexible metal conduit) designed for industrial sensor mounting, cable protection, and adjustable positioning applications. It features a strong magnetic base and adjustable arm that can be bent and shaped to any angle. Available with M8*1, M12*1, or M18*1 threaded heads, it is ideal for mounting proximity sensors, indicator lights, and other industrial equipment on ferromagnetic surfaces. The hollow tube interior allows routing sensor cables directly through the arm for a clean, protected installation.

2. TECHNICAL SPECIFICATIONS

Model Series	RG008
Thread Options	M8*1 / M12*1 / M18*1 internal thread
Head Material (M8, M12)	Iron
Head Material (M18)	Aluminum
Tube Material	Iron + Spring Steel
Tube Finish	Chrome plating
Magnetic Base	φ38mm × 20mm (Iron + NdFeB)
Base Weight	145g
Base Thread	M10*1 female
Cable Passage (M8/M12)	≤4.2mm
Cable Passage (M18)	≤5mm
Length (M8 magnetic)	262 / 362 / 462 / 562mm
Length (M12 magnetic)	280 / 380 / 480 / 580mm
Length (M18 magnetic)	188 / 288 / 388 / 488 / 588mm
Length (M8 screw)	252 / 352 / 452 / 552mm
Length (M12 screw)	270 / 370 / 470 / 570mm
Length (M18 screw)	178 / 278 / 378 / 478 / 578mm
Plain Tube	12×100 / 200 / 300 / 400mm
Color	Chrome Silver
Operating Temp	-20°C to +80°C

3. PACKAGE CONTENTS

- 1 × RG008 Gooseneck Tube Assembly (selected thread size and length)
- 1 × Magnetic Base (pre-assembled on magnetic base models)
- 1 × Nut + Washer (included with M8 and M12 screw-type models)
- 1 × User Manual

4. INSTALLATION INSTRUCTIONS

Step 1 — Verify Compatibility

Check that the thread size (M8*1, M12*1, or M18*1) matches your proximity sensor or equipment. The M18 model directly fits standard M18 cylindrical proximity sensors.

Step 2 — Choose Mounting Method

Magnetic Base Model: Place the magnetic base on a clean, flat ferromagnetic surface (steel/iron). Ensure the surface is free of oil, paint, or debris for maximum magnetic hold.

Screw-Type Model: Secure the head using the M10*1 male thread. Use the included nut and washer for a vibration-resistant connection.

Step 3 — Route Sensor Cable

Thread the sensor cable through the hollow center of the gooseneck tube before attaching the sensor. The inner passage accommodates cables up to 4.2mm (M8/M12) or 5mm (M18) outer diameter.

Step 4 — Mount the Sensor

Screw your M8/M12/M18 threaded proximity sensor onto the gooseneck head. Tighten by hand — do not use tools that may damage the threads.

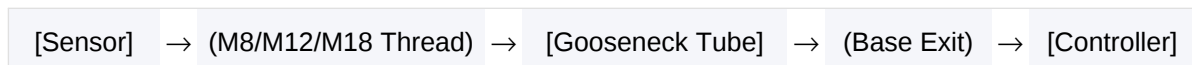
Step 5 — Position and Test

Bend the gooseneck tube to position the sensor at the desired angle and distance. The tube will hold its shape. Test sensor function before finalizing the position.

5. WIRING DIAGRAM

The RG008 gooseneck tube is a mechanical component and contains no electrical wiring. For proximity sensor wiring, refer to your sensor's wiring diagram.

Cable routing: Pass the sensor cable (3-wire or 2-wire) through the hollow tube interior. Exit through the magnetic base opening (8mm hole) or the M10*1 threaded end. Connect to your controller or power supply following the sensor manufacturer's instructions.



6. MAINTENANCE AND CARE

- Clean the chrome surface with a soft, dry cloth. For stubborn grease, use a mild degreaser.
- Periodically check the magnetic base for metal debris that may reduce holding strength.
- Inspect the gooseneck tube for cracks or deformation after heavy use.
- Do not exceed the maximum bending radius — sharp bends may damage the tube structure.
- Keep the threaded connections clean and free of debris for reliable sensor mounting.

7. SAFETY WARNINGS

- Ensure the mounting surface can support the weight of the sensor and cable.
- The magnetic base is very strong — keep fingers clear when attaching to avoid pinching.
- Do not use the gooseneck tube as a lifting or load-bearing device.

- Keep away from sensitive electronic devices (credit cards, hard drives, pacemakers) — the magnetic base contains strong neodymium magnets.
- Operating temperature range: -20°C to +80°C. Do not use outside this range.
- For industrial use only. Not intended for food contact or medical applications.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Magnetic base doesn't hold	Dirty or non-ferromagnetic surface	Clean surface or use on clean steel/iron
	Paint coating on surface	Remove paint or use screw-type model
Tube won't stay in position	Exceeded max adjustment cycles	Replace tube assembly
	Excessive weight on sensor	Use shorter tube or reduce sensor weight
Thread won't fit sensor	Wrong thread size ordered	Verify M8/M12/M18 compatibility
Cable won't pass through tube	Cable too thick	Use cable $\leq 4.2\text{mm}$ (M8/M12) or $\leq 5\text{mm}$ (M18) OD
	Tube bent at sharp angle	Straighten tube before threading cable

9. WARRANTY POLICY

This product is covered by a 1-year warranty against manufacturing defects in materials and workmanship from the date of purchase.

Covered: Structural defects, magnetic base failure due to materials, thread defects.

Not covered: Damage from misuse, modifications, excessive bending beyond design limits, corrosion from chemical exposure, or normal wear from repeated adjustment cycles.

10. AFTER-SALES SERVICE

For technical support, warranty claims, or product inquiries:

Contact: Jude

Phone: +86-15915305795

Email: sales01@birtechnology.com

Website: www.cnclight.com

We aim to respond to all inquiries within 24 hours on business days.