BMH SOLUTIONS

BMH TS-39 TILT SWITCH

LEVEL & BLOCKAGE DETECTION · TS-39 SERIES

FULL BIN? BLOCKED CHUTE? KNOW INSTANTLY.



A heavy cast-iron tilt switch that hangs in the material path. When ore or bulk material pushes it off vertical, the contact opens and your control system reacts before spillage, overfilling or a stalled conveyor.

TS-39 TILT SWITCH

WHERE IT WORKS

HIGH LEVEL

Bins, hoppers, surge piles and silos: a reliable high-level alarm with no calibration.

BLOCKED CHUTES

Transfer points and discharge chutes: trips the feed before material backs up onto the belt.

FLOW / NO FLOW

Hung in a falling stream, it confirms that material is moving, with simple relay logic.

IP67	−50…+80 °C	5 A	6 m
sealed probe	steppe-proof	at 220 V AC / 24 V DC	cable as standard

No moving parts to set up · no power to the probe · works in dust, mud and frost

SUPPLY & SERVICE IN KAZAKHSTAN

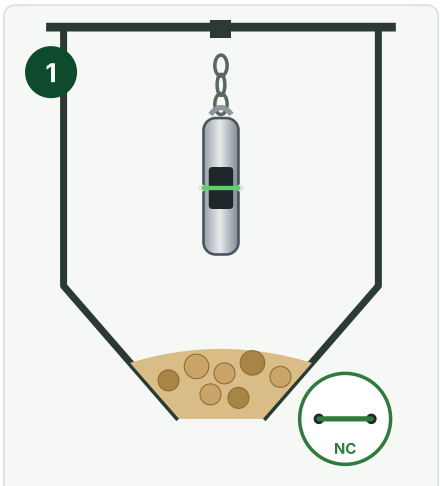
Stock, selection and on-site support by BMH Solutions, Astana

bmh.kz

+7 702 245 00 32

HOW IT WORKS

Gravity does the work: the probe hangs vertical until material pushes it. No calibration, no power at the probe, nothing to drift.

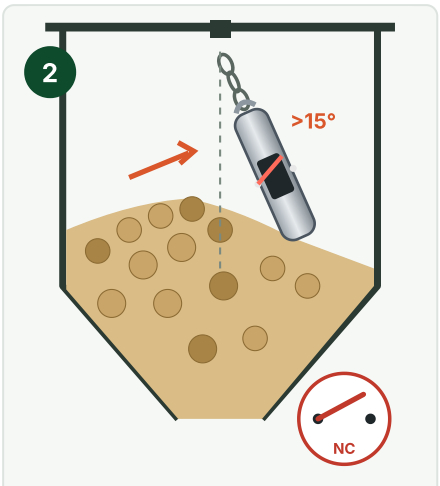


NORMAL OPERATION

The probe hangs freely above the material. The internal tilt contact is closed, the loop is healthy.

CONTACT CLOSED

Conveyor running

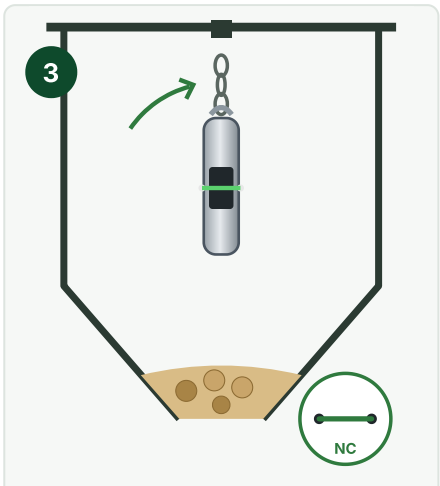


MATERIAL ARRIVES

Rising or backed-up material pushes the probe more than about 15° off vertical. The contact opens.

CONTACT OPEN

Alarm · feeder stops



BACK TO NORMAL

When the material clears, gravity swings the probe back. The contact closes and the system is ready to restart.

CONTACT CLOSED

Ready to restart

SIGNAL PATH

TS-39 probe
NC contact in the probe

→

Cable
6 m standard

→

Relay / PLC input
Short delay filters swings

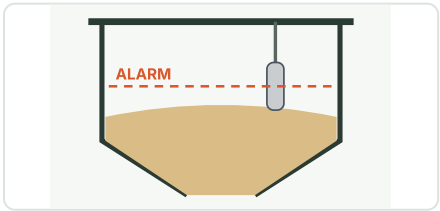
→

Action
Alarm lamp, horn, stop feeder

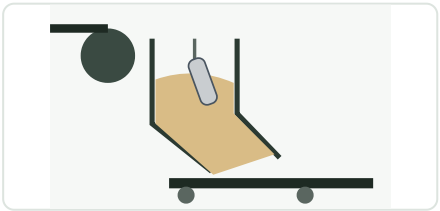
Fail-safe by design

In level and blockage duty the contact is normally closed, so a cut cable, a loose terminal or lost supply opens the loop just like a tilt: the controller sees an alarm, not a false “all clear”. For flow proving, use a monitored controller input.

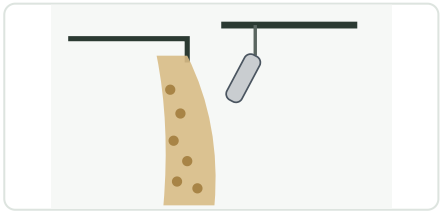
WHERE TO HANG IT



High level in a bin
Hang the probe at the alarm level, clear of the walls and the falling stream.



Blocked chute
Hang it inside the chute above the receiving belt. A back-up tilts the probe and stops the feed.



Flow / no flow
Hang it in the falling stream: tilted means flow. Vertical for too long means the flow has stopped.

TECHNICAL DATA

Contact	1 × NC, opens on tilt
Operating angle	≈ 15° from vertical
Body	Cast iron, chrome-plated
Probe length	195 mm (230 mm overall)
Top connection	M20 × 1.5, 50 mm
Cable	6 m standard, longer on request
Contact rating	5 A at 220 V AC · 5 A at 24 / 12 V DC
Temperature	−50 … +80 °C
Protection	IP67

INSTALLATION TIPS

- Hang the probe where material can tilt it freely and where it can swing back once the material clears.
- Hang it from a shackle or short chain on a rigid support — never carry the probe weight on its cable. Keep it clear of walls and liners.
- Wire the contact to a controller or relay input. Check the load before switching inductive circuits directly.

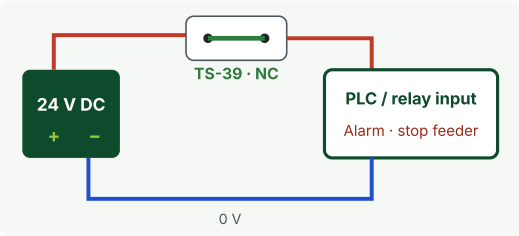
ORDERING CODE

BMH-TS	39	C	06
Series Tilt switch	**Model** Cast-iron probe	**Body** C — cast iron, chrome-plated	**Cable, m** 06 / 10 / 15

CATALOGUE NUMBERS

Catalogue No.	Description
BMH-TS-39-C-06	Tilt switch, 6 m cable (standard)
BMH-TS-39-C-10	Tilt switch, 10 m cable
BMH-TS-39-C-15	Tilt switch, 15 m cable
BMH-TS-MK	Mounting kit: shackle and 1 m chain

TYPICAL WIRING



Supply → probe NC contact → controller input. Input lost = tilt, cable fault or no supply → alarm.

WHY BMH

- Stock and quick supply in Kazakhstan, contracts in tenge
- Selection for your bin, chute or transfer point by BMH engineers
- Installation, commissioning and service on site
- One supplier for conveyor protection: pull-cord, limit and tilt switches

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Specifications may change without notice. Confirm the contact rating for your load before ordering.