BMH SOLUTIONS

BELT ALIGNMENT · BRS-2 SERIES

BELT OFF TRACK? WARN FIRST. STOP IF NEEDED.

A roller-operated switch that watches the belt edge. When the belt starts to drift it warns the operator, and it stops the conveyor only if the belt keeps going. Protect the belt, the structure and your shift from spillage clean-up.

BRS-2 BELT RUN-OFF SWITCH



WHY IT PAYS OFF

SAVE THE BELT

Catches tracking problems before the edge is torn or the belt rubs on the structure.

TWO-STAGE LOGIC

Warning at 10°, stop at 20°: operators get time to react before the conveyor trips.

SELF-RETURNING

When the belt runs true again, the arm returns by itself. No resetting in the gallery.

10° / 20°	2 × SPDT	−50…+80 °C	NEMA 4X
warning / stop	separate contact sets	steppe-proof	option for wet sites

Roller-operated · adjustable arm position · automatic return · M20 or NPT cable entries

SUPPLY & SERVICE IN KAZAKHSTAN

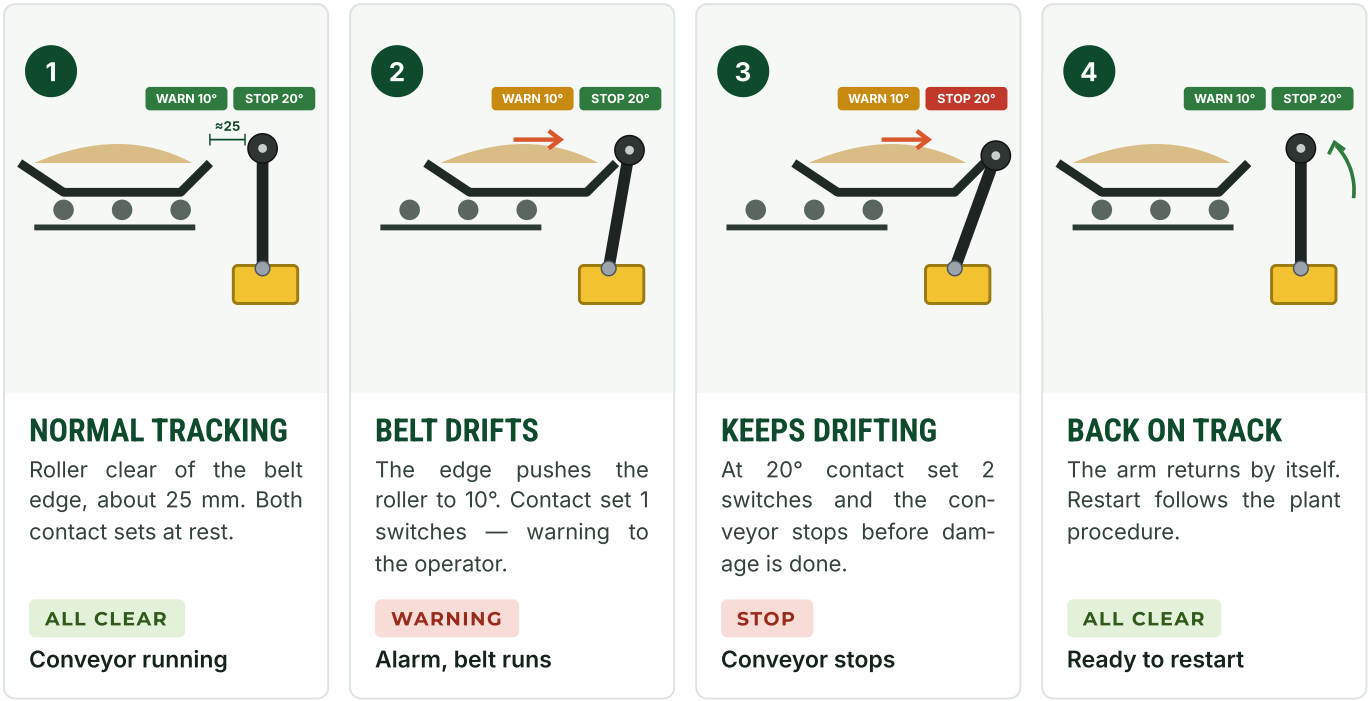
Stock, selection and on-site support by BMH Solutions, Astana

bmh.kz

+7 702 245 00 32

HOW IT WORKS

The roller stands beside the belt edge with about 25 mm clearance. If the belt moves sideways, its edge pushes the roller and turns the arm. Two cams switch two contact sets at different angles — first a warning, then a stop.



NORMAL TRACKING

Roller clear of the belt edge, about 25 mm. Both contact sets at rest.

ALL CLEAR

Conveyor running

BELT DRIFTS

The edge pushes the roller to 10°. Contact set 1 switches — warning to the operator.

WARNING

Alarm, belt runs

KEEPS DRIFTING

At 20° contact set 2 switches and the conveyor stops before damage is done.

STOP

Conveyor stops

BACK ON TRACK

The arm returns by itself. Restart follows the plant procedure.

ALL CLEAR

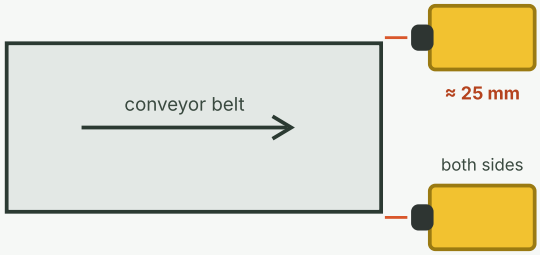
Ready to restart

CONTACT SETS

Arm position	Set 1 (warning)	Set 2 (stop)
Rest	COM–NC **closed**	COM–NC **closed**
10°	COM–NO **closed**	COM–NC **closed**
20°	COM–NO **closed**	COM–NO **closed**

Each set is a changeover (SPDT) contact. Wire set 1 to the alarm and set 2 to the conveyor stop circuit.

WHERE TO INSTALL



Fit switches in pairs, one each side of the belt, at the head, tail, transfer points and on long runs. The roller stands above the belt edge and stays clear during normal tracking.

Designed for real conveyors

The arm rest position can be set in 22.5° steps, so one switch suits horizontal, inclined and vertical mounting. Automatic return does not restart the conveyor — restart stays under the control of the plant.

TECHNICAL DATA

Sensing	**Belt edge displaces the roller arm**
Contacts	**2 × SPDT: warning + stop**
Actuation	**10° warning · 20° stop**
Arm position	**adjustable in 22.5° steps**
Actuating force	**≈ 22 N**
Belt clearance	**≈ 25 mm initial**
Return	**automatic, mechanical**
Temperature	**−50 … +80 °C**
Enclosure	**NEMA 4, NEMA 4X option**
Cable entries	**2 × M20 × 1.5 or 2 × ¾" NPT**
Mounting	**4 × Ø10 mm, 171 × 98.5 mm**
Contact rating	**per configuration, on request**

INSTALLATION & COMMISSIONING

- Mount on a rigid bracket beside the stringer; check the hole pattern on the casting.
- Set the roller about 25 mm from the belt edge, above the edge and clear in normal running.
- Move the arm by hand to the warning and stop positions and check each contact set at the terminals.
- Wire set 1 to the alarm and set 2 to the stop circuit; seal glands and unused entries.
- Never adjust the roller with the belt running. Test monthly and after any belt incident.

ORDERING CODE

BMH-BRS	2	M	4X
Series Belt run-off switch	**Model** 2 contact sets	**Cable entry** M — M20, N — ¾" NPT	**Enclosure** 4 — NEMA 4, 4X — NEMA 4X

CATALOGUE NUMBERS

Catalogue No.	Description
BMH-BRS-2-M-4	Run-off switch, M20 entries, NEMA 4
BMH-BRS-2-M-4X	Run-off switch, M20 entries, NEMA 4X
BMH-BRS-2-N-4	Run-off switch, ¾" NPT entries, NEMA 4
BMH-BRS-SP-RA	Roller and arm assembly
BMH-BRS-SP-CB	Contact block
BMH-BRS-SP-GS	Gasket and gland set

CONTACTS

SALES
+7 702 245 00 32
sales@bmhsolutions.kz
WhatsApp on the same number

TECHNICAL SUPPORT
technicalsupport@bmhsolutions.kz
Selection, installation, service

WEB & OFFICE
bmh.kz
BMH Solutions LLP
16/1 Bokeikhan St., office 2,
Astana, Kazakhstan

Specifications may change without notice. The stop circuit must be designed and validated for the specific conveyor.