ABB JOKAB SAFETY PRODUCT MANAGEMENT

Conversion tables for Magne products

From Magne 1&2 to Magne 3&4

Older models of Magne cannot be ordered anymore. The tables below indicate which replacement products to choose in case of a new installation, and in case of the replacement of an installed product.

General comments:

- Magne 2 is replaced by Magne 4 but Eva and the anchor plate are now ordered separately.
- When replacing an installed Magne 2 product, all models, Eva should be replaced too.
- Though ordered separately, the anchor plates have not changed, i.e. there is no need to order a new one in case of replacement of installed Magne.
- When replacing an installed product, the same M12 cable can be used.

Content (clickable paragraph titles)

Magne Web page

Magne flyer

Magne manual

Conversion table for a new installation

Older model		Replaced by		Comments
Magne 1A Magne 1A v2	2TLA042022R0000 2TLA042022R2100	Magne 3X M12-5 **AND** Magne Anchor 32A	2TLA042022R2700 **AND** 2TLA042023R1300	Different lengths, see page 4. Unlock information not available, see page 5.
Magne 1B Magne 1B v2	2TLA042022R0100 2TLA042022R2200	Magne 3X M12-5 **AND** Magne Anchor 32B	2TLA042022R2700 **AND** 2TLA042023R0400	
Magne 3A	2TLA042022R2500	Magne 3X M12-5 **AND** Magne Anchor 32A	2TLA042022R2700 **AND** 2TLA042023R1300	No “Unlock signal” available anymore, see page 6.
Magne 3B	2TLA042022R2600	Magne 3X **AND** Magne Anchor 32B	2TLA042022R2700 **AND** 2TLA042023R0400	
Magne 2A Magne 2A v2	2TLA042022R1000 2TLA042022R1600	Magne 4 DYN-2Info **AND** Magne Anchor 32A **AND** Eva General Code	2TLA042022R3410 **AND** 2TLA042023R1300 **AND** 2TLA020046R0800	Eva Unique code can also be used, see page 7. Different mounting of Eva, see page 7. Code teaching necessary, see page 8.
Magne 2B Magne 2B v2	2TLA042022R1200 2TLA042022R1800	Magne 4 DYN-2Info **AND** Magne Anchor 32B **AND** Eva General Code	2TLA042022R3410 **AND** 2TLA042023R0400 **AND** 2TLA020046R0800	
Magne 2Ax Magne 2Ax v2	2TLA042022R1300 2TLA042022R1700	Magne 4X DYN M12-5 **AND** Magne Anchor 32A **AND** Eva General Code	2TLA042022R3000 **AND** 2TLA042023R1300 **AND** 2TLA020046R0800	
Magne 2Bx Magne 2Bx v2	2TLA042022R1400 2TLA042022R1900	Magne 4X DYN M12-5 **AND** Magne Anchor 32B **AND** Eva General Code	2TLA042022R3000 **AND** 2TLA042023R0400 **AND** 2TLA020046R0800	

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To Replacement of an installed Magne

Replacement of an installed Magne

Older model		Replaced by		Comments
Magne 1A Magne 1A v2	2TLA042022R0000 2TLA042022R2100	Magne 3X M12-5	2TLA042022R2700	Different lengths, see page 4. Unlock information not available, see page 5.
Magne 1B Magne 1B v2	2TLA042022R0100 2TLA042022R2200	Magne 3X M12-5	2TLA042022R2700	
Magne 3A	2TLA042022R2500	Magne 3X M12-5	2TLA042022R2700	No “Unlock signal” available anymore, see page 6.
Magne 3B	2TLA042022R2600	Magne 3X M12-5	2TLA042022R2700	
Magne 2A Magne 2A v2	2TLA042022R1000 2TLA042022R1600	Magne 4 DYN-2Info **AND** Eva General Code	2TLA042022R3410 **AND** 2TLA020046R0800	Eva Unique code can also be used, see page 7. Different mounting of Eva, see page 7. Code teaching necessary, see page 8.
Magne 2B Magne 2B v2	2TLA042022R1200 2TLA042022R1800	Magne 4 DYN-2Info **AND** Eva General Code	2TLA042022R3410 **AND** 2TLA020046R0800	
Magne 2Ax Magne 2Ax v2	2TLA042022R1300 2TLA042022R1700	Magne 4X DYN M12-5 **AND** Eva General Code	2TLA042022R3000 **AND** 2TLA020046R0800	
Magne 2Bx Magne 2Bx v2	2TLA042022R1400 2TLA042022R1900	Magne 4X DYN M12-5 **AND** Eva General Code	2TLA042022R3000 **AND** 2TLA020046R0800	

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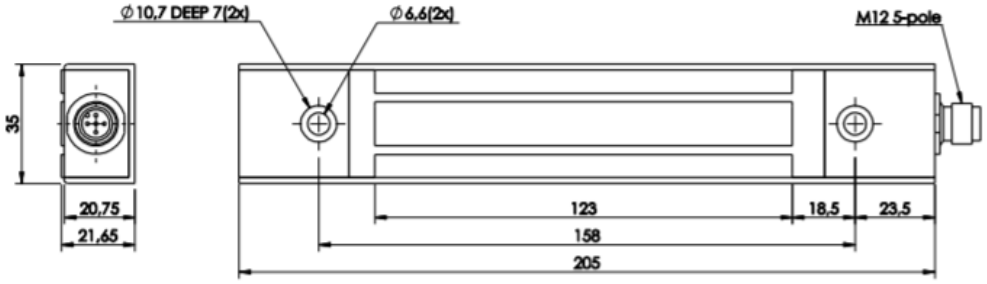
To Conversion table for a new installation

From Magne 1A/B to Magne 3X

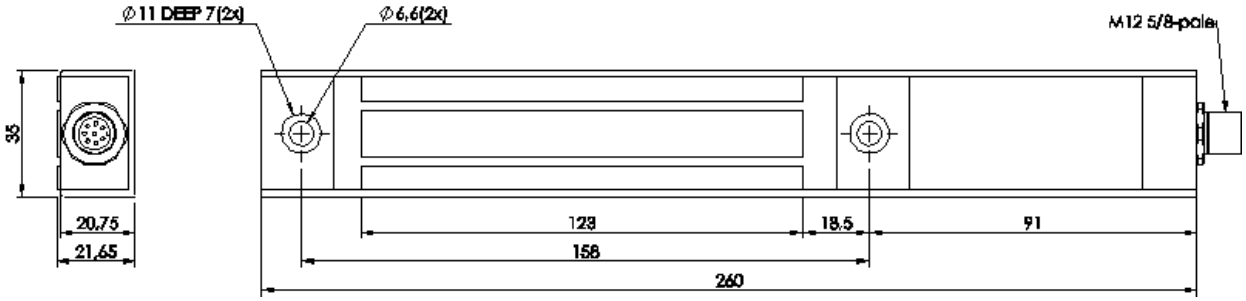
- Same distance between the mounting holes but Magne 3X is longer. See Dimensions.
- Connection is the same for the supply and the locking signal but different for the information signal. See Connection.

Dimensions

Magne 1A/1B



Magne 3X M12-5



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To Conversion table for a new installation

To Replacement of an installed Magne

From Magne 1A/B to Magne 3X

Connection

Pin	Wire color*	Magne 1A/B M12-5 male connector	Magne 3X M12-5 M12-5 male connector
1	Brown	Locking signal, +24 VDC	Locking signal, +24 VDC
2	White	Info-contact, common changeover contact	Not used
3	Blue	0 V	0 V
4	Black	Info-contact, voltage applied to common when locked	Not used
5	Gray	Info-contact, voltage applied to common when unlocked	Info output, +24VDC when locked

* According to ABB standard

If replacing a Magne 1A/B with a Magne 3X M12-5:

- Check if the white wire was connected and to what.
- If it was not connected, no change to be made.
- If it was connected to +24DVC,
  - disconnect the white wire.
  - If the “Locked information signal” was used, i.e. pin 4/black wire, the gray wire should be connected in place of the black one, and the black wire should not be used anymore.
  - If the “Unlocked information signal” was used, i.e. pin 5/Gray wire, there is no replacement for it. Consider the change of function in, for ex., the programming.
- If it was connected to another voltage than +24DVC, disconnect white, black and gray wires and consider the change of function in, for ex., the programming.

NB: The changes between Magne 1A/B and Magne 3X affect the information signals only, the locking of the device is unchanged.

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To Conversion table for a new installation

To Replacement of an installed Magne

From Magne 3A/B to Magne 3X M12-5

- Dimensions are the same.
- Connection is the same except that Magne 3X M12-5 doesn't provide an "unlock signal".

Connection

Pin	Wire color*	Magne 3A/B M12-5 male connector	Magne 3X M12-5 M12-5 male connector
1	Brown	Locking signal, +24 VDC	Locking signal, +24 VDC
2	White	Not used	Not used
3	Blue	0 V	0 V
4	Black	Not used	Not used
5	Gray	Info output, +24VDC when locked, 0V when unlocked.	Info output, +24VDC when locked, No unlocked signal.

* According to ABB standard

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To Conversion table for a new installation

To Replacement of an installed Magne

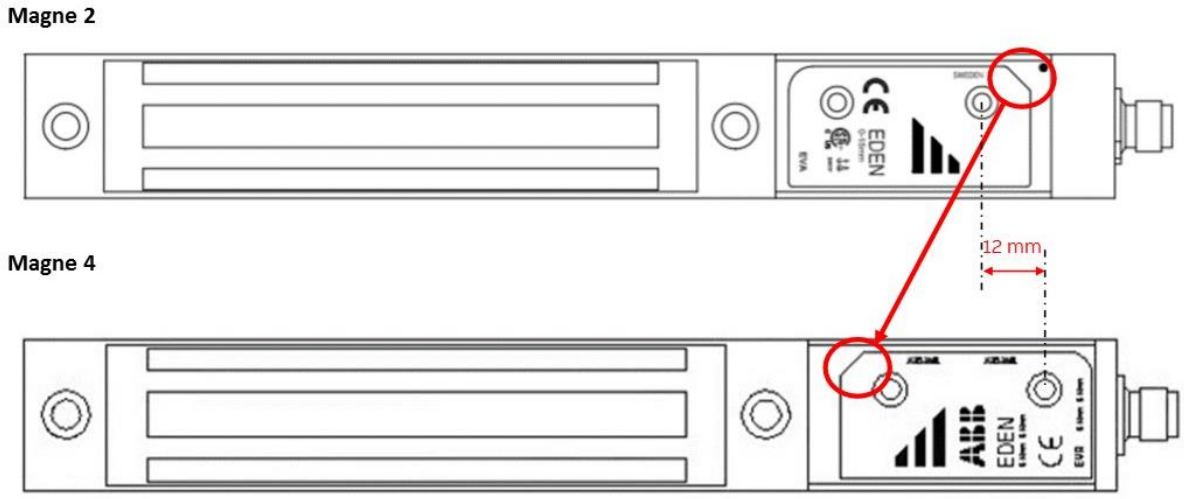
From Magne 2 to Magne 4

Magne 2A/B to Magne 4 DYN-2Info and Magne 2Ax/Bx to Magne 4x DYN M12-5

- Eva is now ordered separately. Don't forget it.
  Eva General code (2TLA020046R0800) or Eva Unique code (2TLA020046R0900).
- When replacing an installed Magne 2 with a Magne 4, Eva should be replaced too. For the same function, order an Eva General code (2TLA020046R0800).
- Dimensions are the same.
- Connection is the same.
- Eva is mounting differently. See Mounting of Eva.
- The code of the Eva must be taught to the Adam integrated in the Magne 4. See Code teaching.

Mounting of Eva

Compared to a Magne 2 with the connector downward, Eva should be turned upside down and mounted about 12 mm lower down. This can cause problem with the mounting accessories JSM D28 (aluminum profile that covers Magne) and JSM D23 (for sliding door).



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To Conversion table for a new installation

To Replacement of an installed Magne

Code teaching

When replacing a Magne 2 with a Magne 4, Eva should be replaced too, and the code of the new Eva must be taught to the Adam integrated in Magne 4.

1. Disconnect the power supply from the Magne 4.
2. Place the Eva within the sensing distance of the Magne 4.
   Note that, as described in Mounting of Eva, the position of Eva with Magne 4 is different from the position of Eva with Magne 2.
3. Connect the power supply to the Magne 4. The green LED on Magne illuminates when the programming is completed.

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To Conversion table for a new installation

To Replacement of an installed Magne