

AZM 161SK-12/12I-024-B1



- Long life
- Compact design
- Double-insulated
- Screw connection
- Individual coding
- High holding force
- 130 mm x 90 mm x 30 mm
- 1 Cable entry M 20 x 1.5
- Manual release from side
- Particularly suitable for sliding doors
- Coding level "High" according to ISO 14119
- Interlock with protection against incorrect locking.

Data

Ordering data

	AZM 161SK-12/12I-024-B1
	101214650
EAN (European Article Number)	4030661399478
eCl@ss number, Version 9.0	27-27-26-03

Approval - Standards

cULus
CCC
EAC

General data

	AZM 161I
	EN 60947-5-1
	BG-GS-ET-19
general information	Individual coding
Coding level according to ISO 14119	High
Active principle	electromechanical
Enclosure material	Glass-fibre, reinforced thermoplastic
Material of the contacts, electrical	Silver
Gross weight	465 g

General data - Features

Power to unlock	Yes
Manual release	Yes
Number of actuating directions	3
Number of auxiliary contacts	2
Number of safety contacts	4

Safety appraisal

	ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	2,000,000 Operations
B10d Normally open contact (NO)	1,000,000 Operations

Mechanical data

Actuating radius, minimum	150 mm
Mechanical life, minimum	1,000,000 Operations
Clamping force	2,000 N
Latching force	5 N
positive break travel	10 mm
Positive break force, minimum	20 N
Actuating speed, maximum	2 m/s

Mechanical data - Connection technique

Terminal Connector	Screw terminals
	1 x 0.25 mm ²
Cable section, maximum	1 x 1.5 mm ² , flexible
Note (Cable section)	All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Height of sensor	90 mm
Length of sensor	30 mm
Width of sensor	130 mm

Ambient conditions

Protection class	IP 67 to IEC/EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	4 kV
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Electrical data

Thermal test current	6 A
Rated control voltage	24 VAC/DC
Required rated short-circuit current to EN 60947-5-1	1,000 A
Electrical power consumption, maximum	10 W
Switching element	NO contact, NC contact
Switching principle	Creep circuit element
Switching frequency	1,000 /h

Electrical data - Safety contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2.5 A

Other data

Note (applications)	sliding safety guard removable guard hinged safety guard
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Scope of delivery

Included in delivery	Slot sealing plugs
Delivery scope of Mounting material	Tamperproof screws

Notes

Note (General)	The axis of the hinge must be 5 mm above and in a parallel plane to the top surface of the safety switch.
	minimum actuating radius on hinged guards in line with the plane of the actuator 150 mm
	minimum actuating radius on rotating guard systems via the narrow edge of the actuator 180 mm
	The actuator is not available separately.
Note (Manual release)	For maintenance, installation, etc.
	For manual release using M5 triangular key, available as accessory

Ordering code

Product type description:

AZM 161(1)(2)(3)I(4)(5)(6)(7)(8)(9)

(1)

CC Cage clamps

SK Screw terminals

ST M12 connector

(2)

11/03 1 NO contacts / 4 NC contacts (conector version)

12/11 2 NO contacts / 3 NC contacts (conector version)

12/03 1 NO contacts/5 NC contact

11/12 2 NO contacts / 3 NC contacts (conector version)

12/12 2 NO contacts/4 NC contacts

(3)

without Latching force 5 N

R Latching force 30 N

(4)

without Power to unlock

A Power to lock

(5)

without Lateral manual release

ED Manual release on the cover side

EU Manual release on the rear side

(6)

T Lateral emergency exit

TD Emergency exit on the cover side

TU Emergency exit on the rear side

N Emergency release

(7)

110/230 Us: 110/230 VAC

without with LED (only for Us: 24 VAC/DC)

(9)

Pictures

[illegible]

ID: kazm1f15

| 238,2 kB | .jpg | 352.778 x 251.883 mm - 1000 x 714

Pixel - 72 dpi

| 19,4 kB | .png | 74.083 x 52.917 mm - 210 x 150

Pixel - 72 dpi

Figure 1 consists of two horizontal bar charts. The top chart has three bars representing age groups 13-14, 21-22, and 41-42. The total value for these bars is 8. The bottom chart has three bars representing age groups 63-64, 51-52, and 71-72. The total value for these bars is 35. A circled 'P' is placed between the two charts.

ID: kazm1s07

| 102,8 kB | .jpg | 352.778 x 304.8 mm - 1000 x 864

Pixel - 72 dpi

| 2,9 kB | .png | 74.083 x 63.853 mm - 210 x 181 Pixel
- 72 dpi

Technical drawing of a mechanical assembly. The drawing shows a cross-section of a component with a central shaft and a flange. Dimensions are indicated by arrows and numbers. The dimensions are: 13, 21, 41, 14, 22, 42, 51, 52, 63, 64, 71, 72, 73, 74. A table at the bottom lists the dimensions in a specific order.

13	14	21	22	41	42	51	52	63	64	71	72	73	74
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ID: kazm1k29

| 111,9 kB | .jpg | 352.778 x 227.894 mm - 1000 x 646

Pixel - 72 dpi

Technical drawing of a mechanical part showing three views: front, top, and side. The front view shows a rectangular part with a width of 8, a height of 36, and a central slot with a width of 40 and a depth of 56. The top view shows a rectangular part with a width of 8, a height of 32.7, and a central slot with a width of 27. The side view shows a rectangular part with a width of 8, a height of 36, and a central slot with a width of 40 and a depth of 56. The drawing includes dimensions for radii (R min 150 and R min 360) and a surface finish symbol.

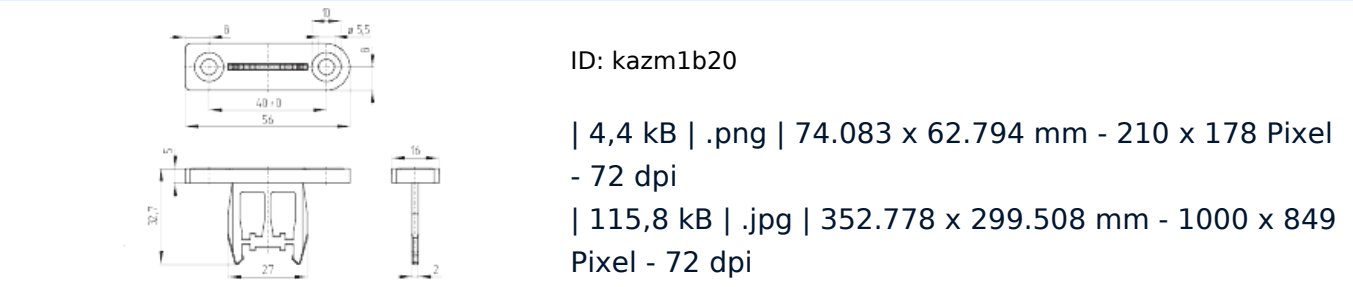
ID: 1azm1b20

| 50,0 kB | .cdr |

| 100,6 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697

Pixel - 72 dpi

Dimension/Product/Actuator



| 4,4 kB | .png | 74.083 x 62.794 mm - 210 x 178 Pixel
- 72 dpi
| 115,8 kB | .jpg | 352.778 x 299.508 mm - 1000 x 849
Pixel - 72 dpi

Graphic/Product/Radius	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	



| 19,8 kB | .cdr |

Graphic/Product/Radius



| 20,7 kB | .cdr |

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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