



MICO Modula Range

High Security Stainless Steel Mortice Lock Range



LPS 1175

BSEN 179

BSEN 1125

BSEN 1670

1M CYCLES

SBD

PAS24



MICO Modula Range

For more than 40 years Tindall Engineering have been at the forefront of high security locking product development and innovation.

MICO High Security Locking Systems are specified throughout the world to suit a wide range of applications from schools and commercial premises requiring robust panic escape hardware solutions through to critical national infrastructure installations demanding the highest levels of security protection.

We can now announce an exciting new addition to the MICO product family - The new MICO Modula Range of single point, mortice fitted locking devices, specifically designed to offer a highly secure and cost-effective locking solution for the modern environment.

Featuring a unique market leading 25mm bolt throw with a 15mm partial latching to aid operation, the new MICO Modula Range provides enhanced levels of security protection against intruders combined with a comprehensive choice of lock functions including safe and effective single-handed means of escape should an emergency event arise.

Four primary locking system options are available:

MICO Modula PE - Panic Escape

MICO Modula AD - Automatic Deadlocking

MICO Modula MD - Manual Deadlocking

MICO Modula EM - Electro-Mechanical for use with access control systems

APPLICATIONS

For installation on steel, timber or composite doorsets when specified on interior room, perimeter final exit or internal escape route applications. The low operating force operation combined with high security forced entry resistance makes the MICO Modula Range eminently suitable for:

- Schools
- Offices
- Retail outlets
- Hospitals
- Secure healthcare facilities
- Factories
- Public buildings

All products within the range have been manufactured to the most stringent specifications and rigorously tested to comply with all applicable British and European Standards to provide the long-term usage expected by our customer base and to ensure extended operational peace of mind.

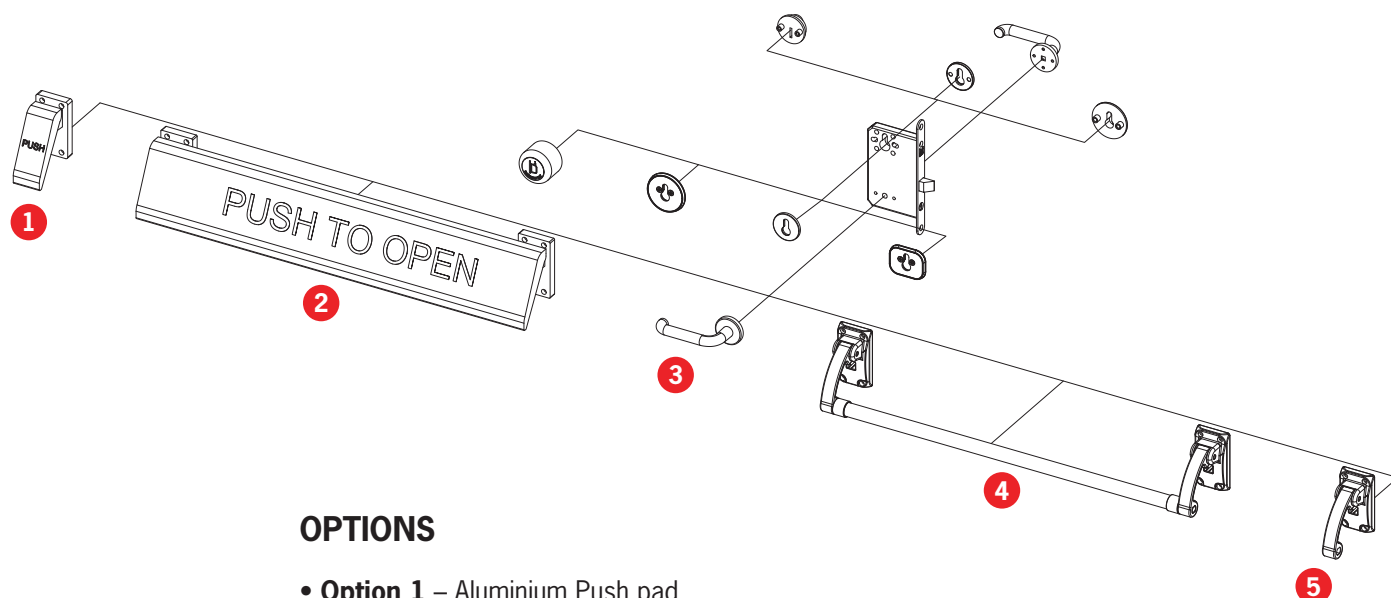




MICO Modula Range

TECHNICAL OVERVIEW

- Stainless steel construction as standard
- Lock dimensions – 107mm wide x 165mm high
- Fascia plate – 235mm x 24mm
- Backset dimension – 70mm
- Standard push plate supplied as 800mm
- 25mm bolt throw with a 15mm partial latching to aid operation



OPTIONS

- **Option 1** – Aluminium Push pad
- **Option 2** – Full width aluminium push plate
- **Option 3** – Medium duty lever
- **Option 4** – Stainless steel push bar
- **Option 5** – Stainless steel pad

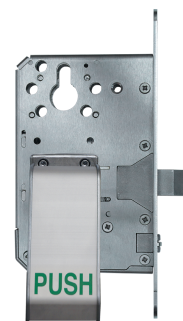


Modula PE

The new MICO Modula Range of single-point, mortice fitted **Panic & Emergency** devices offers single handed means of escape should an emergency event arise.

Push pad, Full width push plate and lever handle options are all available to meet the mandatory BS EN 179 Emergency escape and BS EN 1125 panic escape standards. An anti-thrust mechanism prevents the bolt from being forced back to open door.

External Key access facility is not available on the PE range.



Modula PE 1

OPERATION

Entry Method: External lever handle (optional)

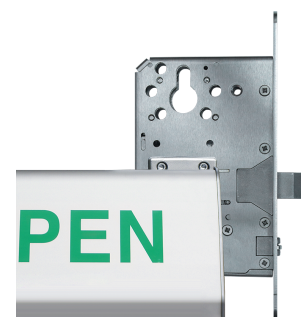
Exit Method: Single handed means of escape at all times from inside via push pad, panic bar or emergency escape sprung lever.

FEATURES

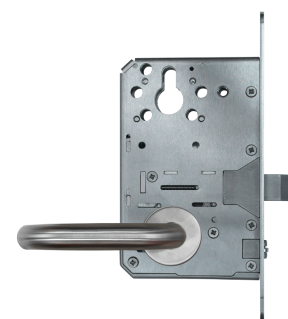
- Tested to over 1,000,000 cycles
- Mortice fitted
- Adjustable roller bolt snib to take up variants in frame gap
- Optional bolt status monitoring
- RTE - Request to exit available on request

BENEFITS

- Robust, heavy duty, mortice fitted lock case and furniture design for high traffic usage
- Built in anti-thrust mechanism for enhanced security
- Emergency escape versions fully tested and certified to BS EN 179:2008 and CE/UKCA marked
- Panic escape versions fully tested and certified to BS EN1125:2008 and CE/UKCA marked



Modula PE 2



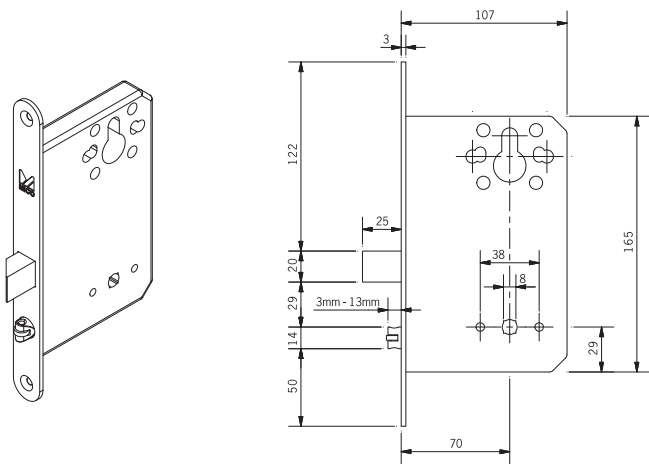
Modula PE 4



Product Performance Chart - Indicates product has been certificated or tested & approved as part of a complete doorset assembly																										
LPS 1175									SECURITY																	
Issue 7	SR1	SR2	SR3	SR4	SR5	SR6	SR7	SR8	LPS 1673 (AR.)					FEBR (min)	EN 1627	STS 202	PAS 24	LPS 2081	SAFETY	BALLISTIC	BLAST	FIRE	CORROSION	CYCLES		
Issue 8	A	B	C	D	E	F	G	H	TIME	A	B	C	D													
20 Min									300 SEC	A300E	B300E			60	RC6	BR6	PAS 24	SRB	EN 1125	EN 1522 FB1-7	ISO 16933 EXV 15/25	UL 10C	GR5	1 MIL		
15 Min									240 SEC						RC5	BR5							EN 1634-1	GR4		
10 Min									180 SEC					15	RC4	BR4					EN 179	UL 752 Level 1-10		GR3	500K	
5 Min									120 SEC						RC3	BR3	PAS 24	SRA			ASTM F2927 Cat 1	CERTIFIRE	GR2			
3 Min	A3	B3							60 SEC					5	RC2	BR2						UL 305	NJ 0108.01 Level 2-3	BS 476-22	GR1	200K
1 Min									30 SEC			C30E	D30E		RC1	BR1										



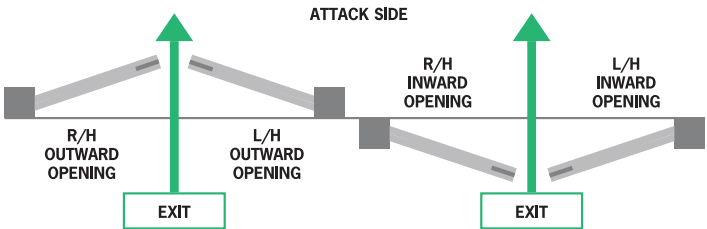
TECHNICAL DRAWINGS



CODING SYSTEM

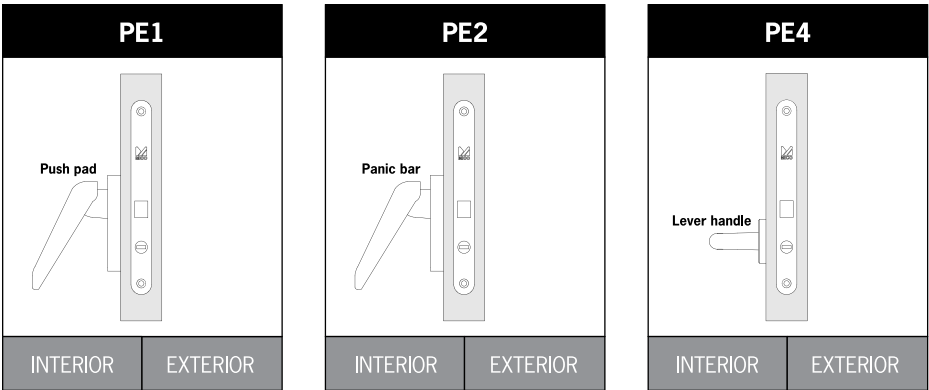
The MICO Modula has a simple code that covers the chosen methods of entry and exit, followed by additional options.

Example Order Code – MICO Modula PE1



Range	Bolts	Exit	Entry	Additional Options
MICO MODULA	1	PE1 - Emergency push pad	-	(BSM) Bolt status micro switch
		PE2 - Panic Full width push plate		
		PE4 - Emergency sprung lever		
		PE6 Stainless steel panic bar		
		PE8 Stainless steel emergency push pad		

EXAMPLE ENTRY/EXIT DIRECTIONS



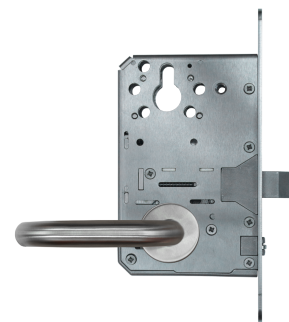


Modula AD

The MICO Modula AD Range of single-point, mortice fitted locking devices offer **automatic deadlocking** upon door closure with external key access facility.

The AD Range can also be specified with SATE single action to escape via push pad, panic bar or sprung lever handle to meet the mandatory BS EN 179 Emergency Escape and BS EN 1125 Panic Escape standards.

External key access is provided as standard on the AD Range with optional PAS24 or LPS 1175 SR2 rated cylinder guard protection.



Modula AD 4

OPERATION

Entry Method: Mechanical key entry via external Euro cylinder and Lever.

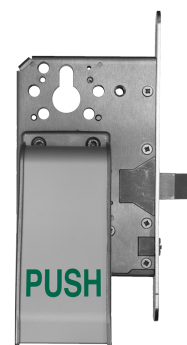
Exit Method: Thumbturn or Euro-profile key cylinder and lever handle or SATE single handed means of escape at all times from inside via push pad, panic bar or emergency escape sprung lever.

FEATURES

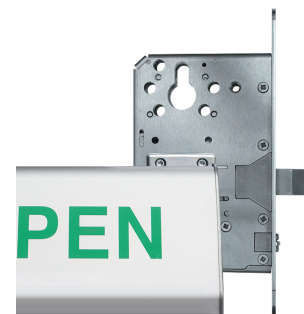
- Tested to over 1,000,000 cycles
- Mortice fitted
- Adjustable roller bolt snib to take up variants in frame gap
- Automatic deadlocking upon door closure
- Optional Bolt & Deadlock status micro-switches
- RTE - Request to exit available on request

BENEFITS

- Robust, heavy duty, mortice fitted lock case and furniture design for high traffic usage
- Built in anti-thrust mechanism for enhanced security
- Emergency escape versions fully tested and certified to BS EN 179:2008 and CE/UKCA Marked
- Panic escape versions fully tested and certified to BS EN 1125:2008 and CE/UKCA Marked
- External Cylinder protection options to meet PAS24 or LPS 1175 SR1 & SR2 on selected doorsets



Modula AD 1 SATE



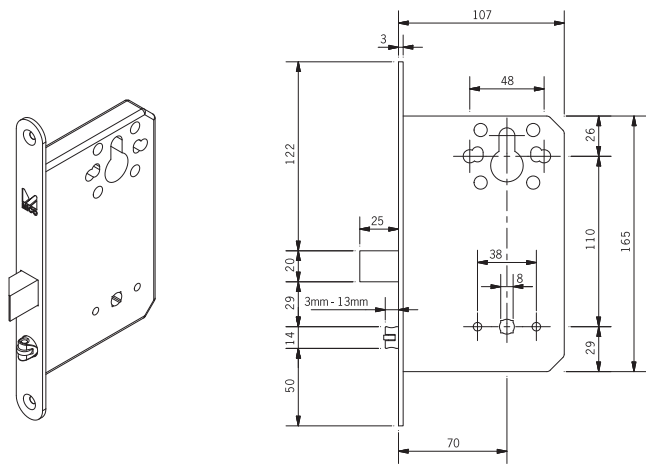
Modula AD 2 SATE



Product Performance Chart - Indicates product has been certificated or tested & approved as part of a complete doorset assembly																										
LPS 1175									SECURITY					LPS 1673 (AR.)		FEBR (min)	EN 1627	STS 202	PAS 24	LPS 2081	SAFETY	BALLISTIC	BLAST	FIRE	CORROSION	CYCLES
Issue 7	SR1	SR2	SR3	SR4	SR5	SR6	SR7	SR8																		
Issue 8	A	B	C	D	E	F	G	H	TIME	A	B	C	D													
20 Min									300 SEC	A300E	B300E			60	RC6	BR6	PAS 24	SRB	EN 1125	EN 1522 FB1-7	ISO 16933 EXV 15/25	UL 10C	GR5	1 MIL		
15 Min									240 SEC					15	RC5	BR5			EN 179	UL 752 Level 1-10		EN 1634-1	GR4			
10 Min									180 SEC						RC4	BR4						GR3				
5 Min									120 SEC					5	RC3	BR3	PAS 24	SRA	UL 305	NJ 0108.01 Level 2-3	ASTM F2927 Cat 1	CERTIFIRE	GR2	200K		
3 Min	A3	B3							60 SEC						RC2	BR2						BS 476-22	GR1			
1 Min									30 SEC			C30E	D30E			RC1							BR1			



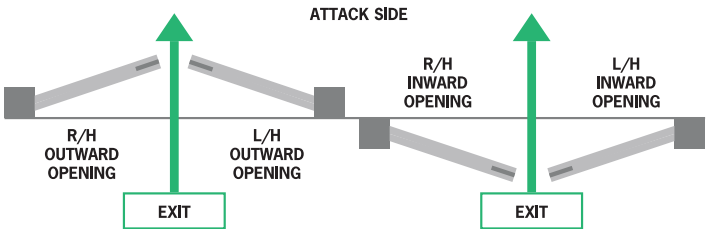
TECHNICAL DRAWINGS



CODING SYSTEM

The MICO Modula has a simple code that covers the chosen methods of entry and exit, followed by additional options.

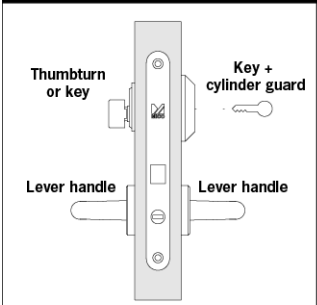
Example Order Code – MICO Modula AD4



Range	Bolts	Exit	Entry	Additional Options
MICO MODULA	1	AD4 – Thumbturn & Lever	Key & lever	MICO PSCH1
		AD1 SATE – Push Pad		
		AD2 SATE – Push Plate		MICO ASCH2
		AD4 SATE – Lever Handle		
		AD6 SATE – Stainless steel panic bar		MICO LSCH2
		AD8 SATE – Stainless steel emergency push pad		

EXAMPLE ENTRY/EXIT DIRECTIONS

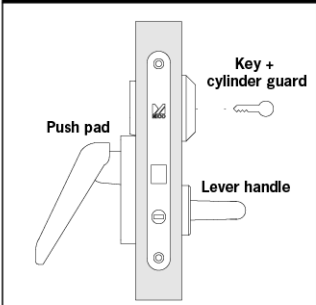
AD4



INTERIOR

EXTERIOR

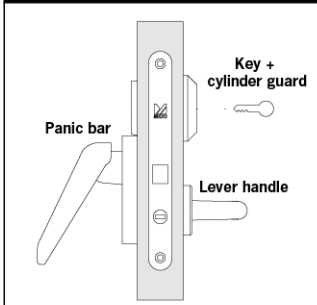
AD1 SATE



INTERIOR

EXTERIOR

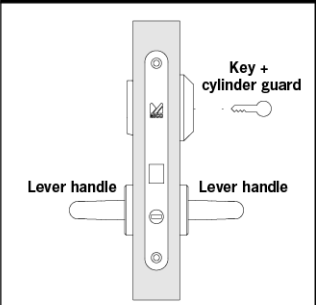
AD2 SATE



INTERIOR

EXTERIOR

AD4 SATE



INTERIOR

EXTERIOR

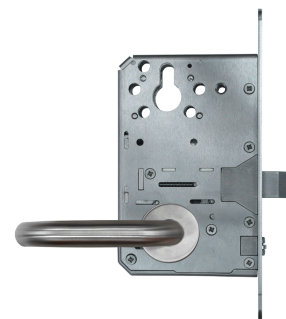


Modula MD

The MICO Modula MD Range of single-point, mortice fitted locking devices offers **manual deadlocking** operation, permitting free passage during working hours and deadlocking via key or thumbturn at the close of business.

The MD Range can also be specified with SATE single action to escape via push pad, panic bar or sprung lever handle to meet the mandatory BS EN 179 Emergency Escape and BS EN 1125 Panic Escape standards.

External key access is provided as standard on the MD Range with optional PAS 24 or LPS 1175 SR2 rated cylinder guard protection.



Modula MD 4

OPERATION

Entry Method: Mechanical key entry via external Euro cylinder and Lever.

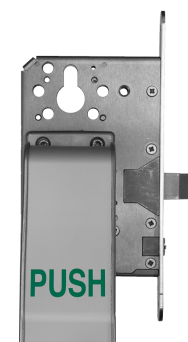
Exit Method: Thumbturn or Euro-profile key cylinder and lever handle or SATE single handed means of escape at all times from inside via push pad, panic bar or emergency escape sprung lever.

FEATURES

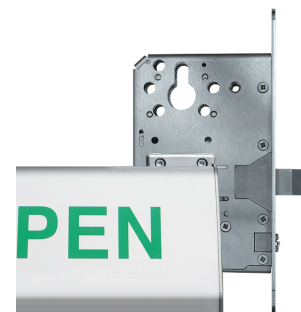
- Tested to over 1,000,000 cycles
- Mortice fitted
- Adjustable roller bolt snib to take up variants in frame gap
- Manual deadlocking upon door closure
- Optional Bolt & Deadlock status micro-switches
- RTE - Request to exit available on request

BENEFITS

- Robust, heavy duty, mortice fitted lock case and furniture design for high traffic usage
- Built in anti-thrust mechanism for enhanced security
- Emergency escape versions fully tested and certified to BS EN 179:2008 and CE/UKCA Marked
- Panic escape versions fully tested and certified to BS EN 1125:2008 and CE/UKCA Marked
- External Cylinder protection options to meet PAS24 or LPS 1175 SR1 & SR2 on selected doorsets



Modula MD 1 SATE



Modula MD 2 SATE

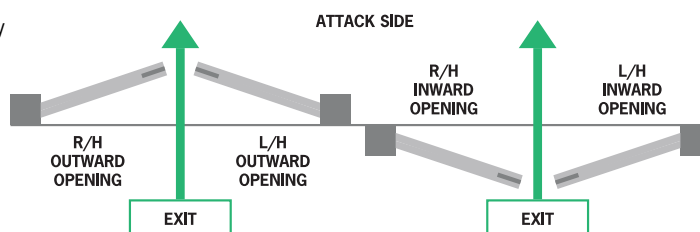
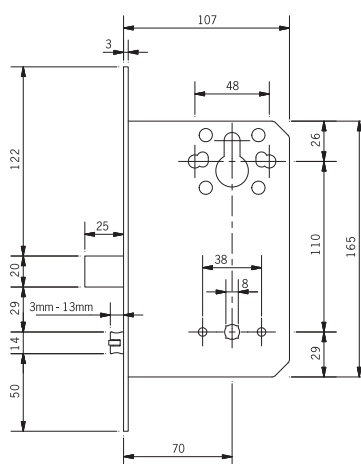


Product Performance Chart - Indicates product has been certificated or tested & approved as part of a complete doorset assembly																																					
LPS 1175								SECURITY								FEBR (min)		EN 1627	STS 202	PAS 24	LPS 2081	SAFETY	BALLISTIC	BLAST	FIRE	CORROSION	CYCLES										
Issue 7	SR1	SR2	SR3	SR4	SR5	SR6	SR7	SR8	LPS 1673 (AR.)								TIME		A	B	C	D	PAS 24		SRB	EN 1125	EN 1522 FB1-7	ISO 16933 EXV 15/25	UL 10C	GR5	1 MIL						
Issue 8	A	B	C	D	E	F	G	H	TIME								A300E	B300E					60	RC6	BR6	RC5	BR5	RC4	BR4	RC3	BR3	EN 179	UL 752 Level 1-10	ASTM F2927 Cat 1	EN 1634-1	GR4	500K
20 Min																				15	RC4	BR4	RC3	BR3	RC2	BR2	RC1	BR1	SRA	UL 305	NJ 0108.01 Level 2-3	BS 476-22	CERTIFIRE	GR2	200K		
15 Min																																					
10 Min																																					
5 Min																																					
3 Min	A3	B3																		5	RC2	BR2	RC1	BR1	SRA	UL 305	NJ 0108.01 Level 2-3	ASTM F2927 Cat 1	BS 476-22	CERTIFIRE	GR2	200K					
1 Min																																					



CODING SYSTEM

Example Order Code – MICO Modula MD4



Range	Bolts	Exit	Entry	Additional Options
MICO MODULA	1	MD4 – Key Cylinder / Thumbturn & Lever	Key & lever	MICO PSCH1
		MD1 SATE – Push Pad		
		MD2 SATE – Push Plate		MICO ASCH2
		MD4 SATE – Lever Handle		
		MD6 SATE – Stainless steel panic bar		MICO LSCH2
		MD8 SATE – Stainless steel emergency push pad		

MD4

Thumbturn or key

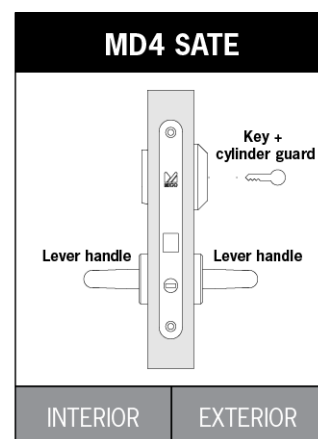
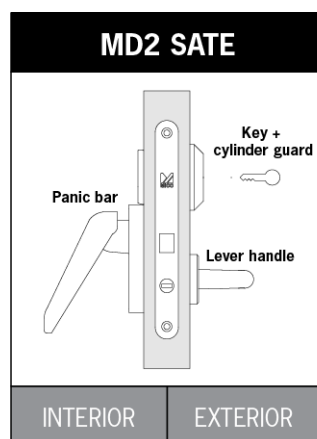
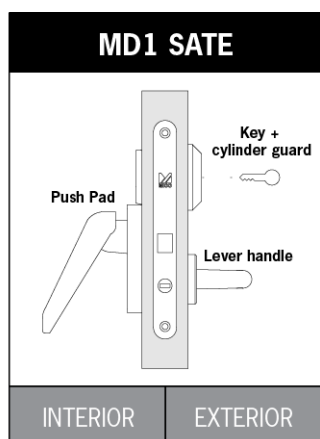
Key + cylinder guard

Lever handle

Lever handle

INTERIOR

EXTERIOR



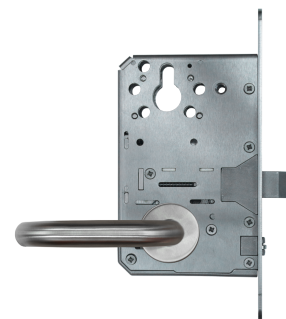


Modula EM

The MICO Modula EM Range of single-point, mortice fitted, fail secure **electro-mechanical** locking devices are suitable for use with all proprietary 12v access control system application where high security is an important consideration.

The EM Range can be specified in either a swipe in/swipe out access control configuration or with external swipe in and internal SATE single action to escape via push pad, panic bar or sprung lever handle to meet the mandatory BS EN 179 Emergency Escape and BS EN 1125 Panic Escape standards.

External mechanical key override is provided as standard on the EM Range with optional PAS24 or LPS 1175SR2 rated cylinder guard protection.



Modula EM 4

OPERATION

Entry Method: Swipe in access control with sprung lever handle plus mechanical Euro-profile key override function.

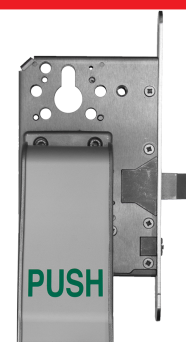
Exit Method: Swipe out access control with lever handle plus mechanical breakdome/thumbturn/lever override function. Optional SATE single handed means of escape at all times from inside via push pad, panic bar or emergency escape sprung lever.

FEATURES

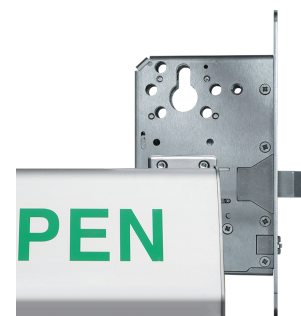
- Tested to over 1,000,000 cycles
- Mortice fitted
- Adjustable roller bolt snib to take up variants in frame gap
- Electro-mechanical locking
- Bolt & Deadlock status micro-switch fitted as standard
- RTE - Request to exit available on request

BENEFITS

- Robust, heavy duty, mortice fitted lock case and furniture design for high traffic usage
- Built in anti-thrust mechanism for enhanced security
- Emergency escape versions fully tested and certified to BS EN 179:2008 and CE/UKCA Marked
- Panic escape versions fully tested and certified to BS EN 1125:2008 and CE/UKCA Marked
- External Cylinder protection options to meet PAS24 or LPS 1175 SR1 & SR2 on selected doorsets



Modula EM 1 SATE



Modula EM 2 SATE



Product Performance Chart - Indicates product has been certificated or tested & approved as part of a complete doorset assembly																									
LPS 1175								SECURITY				FEBR (min)		EN 1627	STS 202	PAS 24	LPS 2081	SAFETY	BALLISTIC	BLAST	FIRE	CORROSION	CYCLES		
Issue 7	SR1	SR2	SR3	SR4	SR5	SR6	SR7	SR8	LPS 1673 (AR.)																
Issue 8	A	B	C	D	E	F	G	H	TIME	A	B	C	D												
20 Min									300 SEC	A300E	B300E			60	RC6	BR6	PAS 24	SRB	EN 1125	EN 1522 FB1-7	ISO 16933 EXV 15/25	UL 10C	GR5	1 MIL	
15 Min									240 SEC						RC5	BR5			EN 179	UL 752 Level 1-10	ASTM F2927 Cat 1	EN 1634-1	GR4		
10 Min									180 SEC					15	RC4	BR4			EN 305	NIJ 0108.01 Level 2-3		CERTIFIRE	GR3	500K	
5 Min									120 SEC						RC3	BR3	PAS 24	SRA	UL 305	NIJ 0108.01 Level 2-3	ASTM F2927 Cat 1	BS 476-22	GR2	200K	
3 Min	A3	B3							60 SEC					5	RC2	BR2						BS 476-22	GR1		
1 Min									30 SEC			C30E	D30E		RC1	BR1									



Technical drawing of the 100mm wide door handle. The drawing includes a perspective view on the left and a detailed front view on the right with dimensions in millimeters.

Dimensions:

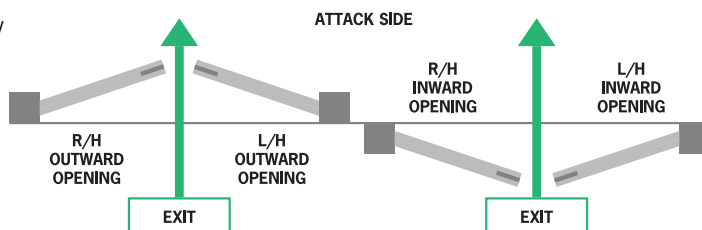
- Overall width: 107
- Top mounting hole spacing: 48
- Bottom mounting hole spacing: 38
- Bottom mounting hole diameter: 8
- Top mounting hole diameter: 6
- Top mounting hole offset: 3
- Top mounting hole diameter: 3
- Top mounting hole diameter: 25
- Top mounting hole diameter: 3mm - 13mm
- Top mounting hole diameter: 11.4
- Top mounting hole diameter: 29
- Top mounting hole diameter: 50
- Top mounting hole diameter: 122
- Top mounting hole diameter: 26
- Top mounting hole diameter: 110
- Top mounting hole diameter: 165
- Top mounting hole diameter: 29
- Top mounting hole diameter: 70

The MICO Modula has a simple code that covers the chosen methods of entry and exit, followed by additional options.

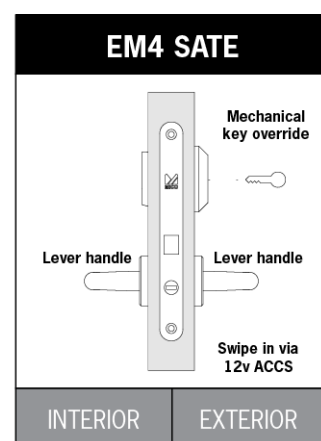
Example Order Code – MICO Modula EM4

The diagram illustrates the MICO Modula EM4 units. It shows two units, each with a horizontal base. The left unit has a right-hand (R/H) outward opening on the left and a left-hand (L/H) outward opening on the right. The right unit has a right-hand (R/H) inward opening on the left and a left-hand (L/H) inward opening on the right. Above the units, the text 'ATTACK SIDE' is written. Below each unit, there is a green arrow pointing upwards, labeled 'EXIT' in a green box. The diagram is labeled 'R/H INWARD OPENING', 'L/H INWARD OPENING', 'R/H OUTWARD OPENING', and 'L/H OUTWARD OPENING'.

Example Order Code – MICO Modula EM4



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Assessed to ISO 9001
LPCB Cert. No. 608

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