

## Separating Guarding

### Movable Guards

Door, hatches, or other hinged, sliding or removable guards

### Fixed Guards

Wall, fence, or other permanent physical barrier.

Requires tools to remove barrier. No safety switch necessary.

### Non-Locking

#### Keyed Interlock

Multiple key entry or rotatable head  
Many actuator key options  
Door handle actuator option

Plastic housing  
**AZ15, AZ16, AZ17, TZG**

Metal housing  
**AZ3350, AZ415**

With integrated electronic sensor  
**AZ200**

#### Electronic Sensor

Non-contact sensing  
Plastic or metal housing  
LED status displays standard  
Individual coding (RFID)  
Series wiring  
Optional Serial Diagnostics

Pulse Echo system  
**CSS34, CSS30S, CSS180**

RFID system  
**RSS260, RSS36, RSS16**

#### Coded Magnet Sensor

Non-contact sensing  
Plastic or metal housing  
Prewired cable or connector  
Requires safety controller

Rectangular  
**BNS260, BNS36, BNS40S  
BNS16, BNS333**

Cylindrical  
**BNS30, BNS300, BNS303**

Door handle  
**BNS-B20**

#### Limit Switch

Variety of actuator heads available  
Slow or snap action

Plastic housing  
**T/Z236, T/Z336**

Metal housing  
**T/Z235, T/Z335**

Compact housing  
**PS116**

#### Hinge Switch

For hinged guard doors  
Plastic or metal housing

Limit switch  
**T.C235, T.C236**

Axil limit switch  
**TV.S335**

Hinge replacement  
**TESZ, TESF, TESK**

### Locking

#### Mechanical Solenoid Lock

Plastic or metal housing  
Multiple key entry or rotatable head  
Many actuator key options  
Door handle actuator option  
Power-to-lock or Spring-to-lock versions  
Manual or emergency release

**AZM161, AZM170, TZF/TZM, AZM415**

#### Electronic Solenoid Lock

Integrated non-contact electronic sensor  
LED status displays standard  
Individual coding (RFID)  
Series wiring  
Optional Serial Diagnostics  
Manual or emergency release

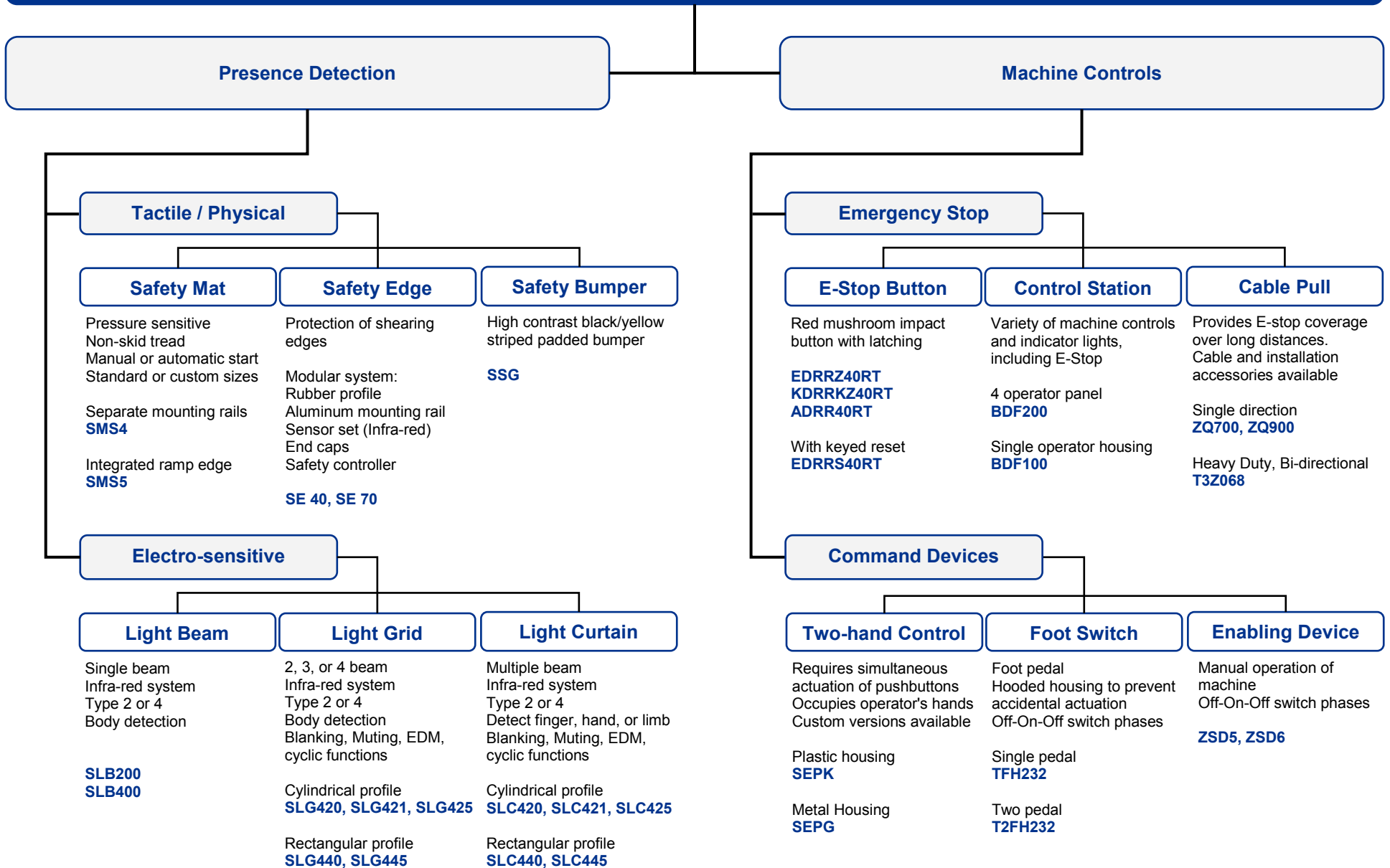
**AZM200, AZM300**

#### Electronic Electromagnetic Lock

Integrated non-contact electronic sensor  
LED status displays standard  
Series wiring  
Optional Serial Diagnostics  
Adjustable latching force

**MZM100**

## Non-Separating Guarding



## Guard Monitors

Model	Operating Voltage (UB)	Types of Input	Max. PL	No. of Devices Monitored	No. of Safety Outputs	No. of Aux. Outputs	Feedback Monitoring	Type of Reset *	Cross-short Monitoring	
<b>For input with Dry Contacts (NO or NC)</b>										
SRB 206 ST	24V AC/DC or 48-230V AC	NC/NC	d	6	2	6 PNP	Yes	MM or A	No	
SRB 207 AN	24VDC or 48-230VAC	NO/NC	d	6	2	6 PNP	Yes	M or A	Yes	
SRB 211 AN	24V AC/DC	NO/NC	e	1	2 (stop 0) / 1 (stop 1)	1 PNP	Yes	MM or A	Selectable	
SRB302X3-24/115	24 VAC/DC or 115V	NC/NC	e	1	3	1 NC	Yes	MM or A	No	
SRB 301 AN	24V AC/DC	NO/NC	e	1	3	1NC	Yes	MM or A	Yes	
AES2335	24-230VAC/DC	NC/NC, NO/NC	d	1	3	2 PNP	Yes	M or A	Yes	
AES1235	24VDC	NC/NC, NO/NC	d	1	2	2 PNP	Yes	M or A	Yes	
AES1337	24VDC	NO/NC	e	3	1	1 PNP	Yes	MM or A	Yes	
AES1265	24VDC	NO/NC, NO/NC	d	2	1	2 PNP	Yes	M or A	Yes	

## For inputs with PNP-type inputs or Dry contacts (NO or NC)

SRB 211 ST	24V AC/DC	NC/NC, PNP	e	1	2 (stop 0) / 1 (stop 1)	1 PNP	Yes	MM or A	Selectable
SRB 301 MC	24V AC/DC	NC/NC, PNP	e	1	3	1 NC	Yes	M or A	Yes
SRB 301 ST	24V AC/DC	NC/NC, PNP	e	1	3	1 NC	Yes	MM or A	Selectable
SRB 324ST	24V AC/DC	NC/NC, PNP	e	1	3 (stop 0) / 2 (stop 1)	1 NC & 3 PNP	Yes	MM or A	Yes
SRB 504 ST	24V AC/DC	NC/NC, PNP	e	1	5	1 NC & 3 PNP	Yes	MM or A	Yes

## Safety Output Expansion Module

SRB 402 EM	24V AC/DC	N/A	N/A	N/A	4	2 NC	Yes	A	N/A
SRB 401 EM	115V AC	N/A	N/A	N/A	4	1 NC	Yes	A	N/A

## Input Expansion Module

Protect-IE	24V DC	11: NO/NC, 02 : NC/NC	N/A	4	N/A	4 PNP	N/A	N/A	Yes
Protect-PE	24V DC	11: NO/NC, 02: NC/NC, PNP	N/A	4	N/A	5 PNP	N/A	N/A	Yes

\* Key for reset type: MM = Monitored manual; M = Manual; A = Automatic; DR = Double Reset

## Controllers for specific components

Model	Operating Voltage (UB)	Types of Input	Max. PL	No. of Devices Monitored	No. of Safety Outputs	No. of Aux. Outputs	Feedback Monitoring	Type of Reset *	Cross-short Monitoring
<b>For Safety Mats or Two Hand Controls</b>									
SRB 301 HC/T	24V AC/DC or 48-230V AC	Safety Mat, NC/NC	e	1	3	1 NC	Yes	MM or A	Yes
SRB 201 ZH	24V DC	NC/NC, Anti Tie Down	e	2	2	1 NC	Yes	A	Yes
SRB 301 HC/R	24V AC/DC or 48-230V AC	NC/NC, Anti Tie Down	e	2	3	1 NC	Yes	MM	Yes
<b>For Safety Edges</b>									
SE-400C	24VDC	Safety Edges	e	1	1	1	Yes	MM or A	Yes
SE-100C	24VDC	Safety Edges	c	1	1	1	No	A	Yes
SE-304C	24VDC	up to 4 x Safety Edges	d	4	1	1	No	MM or A	Yes
<b>Muting Module</b>									
SRB 202 MSL	24V DC	PNP/NPN, NC/NC	e	2	2	2	Yes	A	Yes
<b>For Double Reset Function</b>									
SRB 100 DR	24V AC/DC	N/A	e	2	1	None	N/A	MM / DR	Yes

\* Key for reset type: MM = Monitored manual; M = Manual; A = Automatic; DR = Double Reset

## Safe Speed & Standstill Monitors

Model	Operating Voltage (UB)	Types of Input	Max. PL	Enabling circuits	No. of Aux. Outputs	Devices Monitored
<b>Failsafe Timer</b>						
AZS 2305	24V DC, 110V AC, 230V AC	NO/NC	d	3	2 PNP	Time
<b>Standstill Monitor</b>						
FWS1205	24V DC	PNP	d	2	2 PNP	2 impulse sensors
FWS2505	24-230V AC/DC	PNP	d	4	1 NC, 2 PNP	2 impulse sensors
DN3PS2	24V DC	PNP	e	2	None	Back EMF
<b>Safe Speed Monitor</b>						
DNDS	24V DC	PNP, Resolver, HTL, TTL, Sin/Cos		various	various	Encoders, Resolvers, Proximity Sensors