MOSAIC
MA4
ReeR
MZERO
SAFEGATE ////
ReeR
ReeR

Safety Solutions Catalogue

2025

ReeR

Safety Technology

for Industrial Applications

ReeR
Your future's safe!

MECHTRIC

Introduction

ReeR brings you a wide variety of state-of-the-art safety devices crafted for the most demanding industrial automation challenges. Our line-up includes the EOS and Safegate safety light curtains, well-known for their reliable protection of fingers, hands, and bodies, along with access control that offers an integrated muting function. ReeR also provides the Mosaic Safety Controller and the innovative R-Safe RFID switch. These products are made for easy integration, simple use, and a solid, durable design that's perfect for industrial environments.

ReeR's Quality System is certified by **TÜV SÜD**, meeting the stringent UNI **EN ISO 9001:2008** standard.

This high level of quality is maintained through meticulous design, supplier oversight, and rigorous testing.

Certification:

CE UL TÜV

SAFETY LEVEL
TYPE 4
SIL 3 - SILCL 3
PL e - Cat. 4

SAFETY LEVEL
TYPE 2
SIL 1 - SILCL 1
PL c - Cat. 2

Product range

EOS
COMPACT
SAFETY LIGHT CURTAINS
ReeR

EOS Series Safety Light Curtains:

- Compact design and easy installation with Type 2 and Type 4 safety levels
- Built-in EDM with manual or automatic restart
- Finger, hand and body detection
- Multi-beam grids for access control

Safegate Light Curtains with Muting:

- Ideal for access control of automated palletisers
- Pre-configured muting logics and pre-wired muting sensors
- Flexible configuration to cover all scenarios
- Wide range of accessories

ReeR and MECHTRIC collaboration

Combining **ReeR**'s global expertise in industrial safety technology with **MECHTRIC**'s commitment to quality, this partnership delivers advanced safety systems tailored to meet industry demands.

Together, we offer **world-class safety products** backed by trusted technical support, creating safer workplaces and ensuring reliable protection across sectors.

ReeR
SAFEGATE
Micro
MOSAIC
STATUS1

MOSAIC
ReeR

Mosaic Configurable Safety Controllers:

- Modular, configurable and expandable controllers for managing multiple safety devices
- Includes free design software for efficient setup, monitoring and simulation
- Supports multiple safety sensors, including light curtains, emergency stops, and door switches

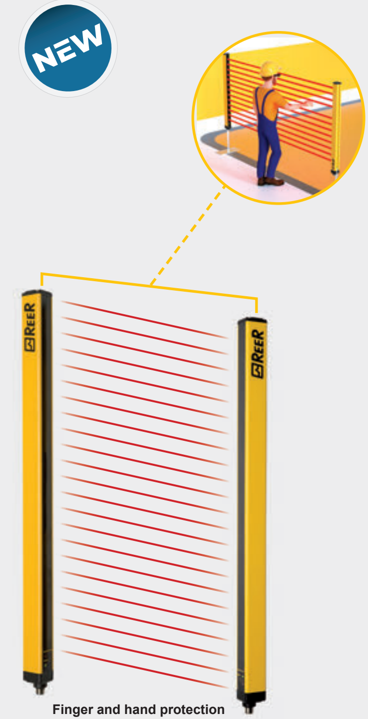
RFID Safety Switches:

- Low and high level coding
- Connector, pigtail or cable connection
- Bright status LED
- Plus version for series connection of up to 16 sensors with serialised status output

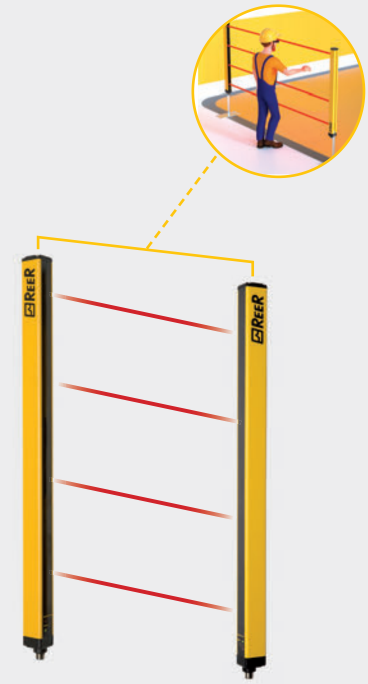
SAFETY LEVEL
TYPE 4
SIL 3 - SILCL 3
PL e - Cat. 4

SAFETY LEVEL
TYPE 2
SIL 1 - SILCL 1
PL c - Cat. 2

NEW


Finger and hand protection

EOS...


Body protection and access control

EOS...

EOS series - Safety light curtains

EOS series is a compact safety light curtain range with competitive performance and innovative features. Includes models with integrated safety functions such as self-monitoring static outputs, control of external contactors (EDM) and selectable automatic or manual restart. 2 safety PNP static outputs. Easy connection and installation thanks to the M12 connectors and the use of unshielded cables up to 100 meters.

• Power supply:	24 VDC ± 20%
• Dimensions:	*(W) 28 x (D) 30 mm*
• Restart:	Selectable manual/automatic Start/Restart
• Status display:	LEDs for light curtain’s status and diagnostic
• Integrated function:	Integrated External Device Monitoring (EDM) function
• Mounting:	Via back slot with provided standard mounting brackets
• Connection:	Emitter: M12 5-pin - Receiver: M12 8-pin
• OSSD safety outputs:	2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection

Scan to watch video

For finger and hand detection - *Safety light curtains* IP65/67

EOS2 X - Safety light curtain with built-in control functions - Type 2

- Detection: Hand detection *(30 mm resolution)* • Maximum range: Selectable 4/12 meter
- Safety Level: Type 2, SIL 1/SILCL 1, PL c, Cat. 2

type	resolution	protected height	No. beams	description	overall height	connection type	price
1320211	30 mm	310 mm	16	safety light curtain	363 mm	M12 plug	**907.00**
1320212	30 mm	460 mm	23	safety light curtain	513 mm	M12 plug	**1 067.00**
1320213	30 mm	610 mm	31	safety light curtain	663 mm	M12 plug	**1 226.00**
1320214	30 mm	760 mm	38	safety light curtain	813 mm	M12 plug	**1 410.00**
1320215	30 mm	910 mm	46	safety light curtain	963 mm	M12 plug	**1 594.00**
1320217	30 mm	1210 mm	61	safety light curtain	1263 mm	M12 plug	**1 949.00**
1320219	30 mm	1510 mm	76	safety light curtain	1563 mm	M12 plug	**2 329.00**

EOS4 X - Safety light curtain with built-in control functions - Type 4

- Detection: Finger detection *(14 mm resolution)* • Maximum range: Selectable 3/6 meter
- Safety Level: Type 4, SIL 3/SILCL 3, PL e, Cat. 4

type	resolution	protected height	No. beams	description	overall height	connection type	price
1310010	14 mm	160 mm	15	safety light curtain	213 mm	M12 plug	**1 302.00**
1310011	14 mm	310 mm	30	safety light curtain	363 mm	M12 plug	**1 692.00**
1310012	14 mm	460 mm	45	safety light curtain	513 mm	M12 plug	**2 071.00**
1310013	14 mm	610 mm	60	safety light curtain	663 mm	M12 plug	**2 449.00**
1310014	14 mm	760 mm	75	safety light curtain	813 mm	M12 plug	**2 842.00**
1310015	14 mm	910 mm	90	safety light curtain	963 mm	M12 plug	**3 221.00**
1310016	14 mm	1060 mm	105	safety light curtain	1113 mm	M12 plug	**3 586.00**
1310017	14 mm	1210 mm	120	safety light curtain	1263 mm	M12 plug	**3 993.00**

- Detection: Hand detection *(30 mm resolution)* • Maximum range: Selectable 4/12 meter
- Safety Level: Type 4, SIL 3/SILCL 3, PL e, Cat. 4

type	resolution	protected height	No. beams	description	overall height	connection type	price
1310211	30 mm	310 mm	16	safety light curtain	363 mm	M12 plug	**1 081.00**
1310212	30 mm	460 mm	23	safety light curtain	513 mm	M12 plug	**1 264.00**
1310213	30 mm	610 mm	31	safety light curtain	663 mm	M12 plug	**1 446.00**
1310214	30 mm	760 mm	38	safety light curtain	813 mm	M12 plug	**1 657.00**
1310215	30 mm	910 mm	46	safety light curtain	963 mm	M12 plug	**1 867.00**
1310217	30 mm	1210 mm	61	safety light curtain	1263 mm	M12 plug	**2 288.00**
1310219	30 mm	1510 mm	76	safety light curtain	1563 mm	M12 plug	**2 709.00**

Note: *Heights (from 160 to 2200 mm) and extended range up to 20 meters available on request.*

For access control / body protection - *Safety light curtains* IP65/67

EOS2 X - Safety light curtain with built-in control functions - *Type 2 - Max range: 12 meter*

type	resolution	protected height	No. beams	description	overall height	connection type	price
1320610	–	510 mm	2	safety light curtain	653 mm	M12 plug	**846.00**
1320612	–	910 mm	4	safety light curtain	1053 mm	M12 plug	**1 083.00**

EOS4 X - Safety light curtain with built-in control functions - Type 4 - Max range: 12 meter

type	resolution	protected height	No. beams	description	overall height	connection type	price
1310610	–	510 mm	2	safety light curtain	653 mm	M12 plug	**934.00**
1310612	–	910 mm	4	safety light curtain	1053 mm	M12 plug	**1 232.00**

EOS4 XH - Safety light curtain with built-in control functions - Type 4 - Max range: 20 meter

type	resolution	protected height	No. beams	description	overall height	connection type	price
1310660	–	510 mm	2	safety light curtain	653 mm	M12 plug	**1 102.00**
1310662	–	910 mm	4	safety light curtain	1053 mm	M12 plug	**1 369.00**

Mounting accessories for safety light curtains *(std L-shaped brackets included with light curtains)*

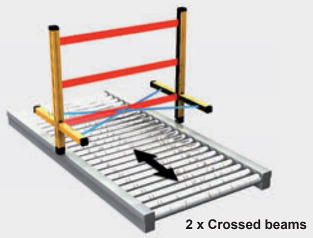
1310980	SFB E180	brackets	set of (4) x 180° swivel brackets for	EOS2/4	**108.00**
1310969	SFB FAST	brackets	set of (4) x FAST coupling brackets for	EOS2/4	**203.00**
1310973	SAV 8E	dampers	set of (8) vibration dampers for	EOS2/4	**70.00**
1310976	SFB 4E	brackets	set of (4) x adjustable brackets for	EOS2/4	**41.00**
1310997	FE 4	brackets	set of (4) flat brackets for	EOS2/4	**75.00**

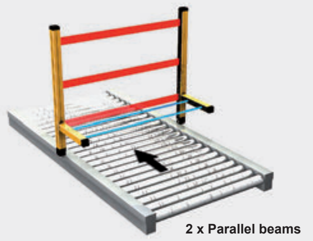
SAFETY LEVEL
TYPE 4
SIL 3 - SILCL 3
PL e - Cat. 4

NEW

Safegate with MA Arms

Safegate with MZ Muting brackets


2 x Crossed beams


2 x Parallel beams

Safegate - Safety light curtains *(with integrated muting functionality)*

Safety light curtains with integrated Muting function for human material differentiation applications. Safegate guarantees the integration of the muting sensors directly to the safety light curtain.

Programmable models (SMPO) functional parameters configuration can be managed via Safegate Configuration Software (SCS).

Hardware configuration:	No programming necessary, allows parameterisation and muting logic configuration.
Software configuration:	Allows configuration of functional parameters, muting *and additional functions (e.g. Filters, delays, partial muting etc).*
3 Pre-Configured Muting Logic:	Exit-Only *(Parallel or Crossed Beams)*, Entry-Exit *(Parallel Beams)*, Entry-Exit *(Crossed Beams)*.
Muting sensors:	MA Muting Arms, MZ Muting Brackets, any dark-on M12 5-pole photocell

General features:

• Power supply:	24 VDC ± 20%
• Dimensions:	*(W) 50 x (D) 55 mm*
• Restart:	Selectable *(manual/automatic)* Start/Restart
• Status display:	LEDs for light curtain status and diagnostics
• Integrated function:	External Device Monitoring (EDM) function
• Muting:	Integrated muting function
• Mounting:	Via back slot with provided standard mounting brackets
• Connection:	Emitter: M12 5-pin - Receiver: M12 12-pin
• OSSD safety outputs:	2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection

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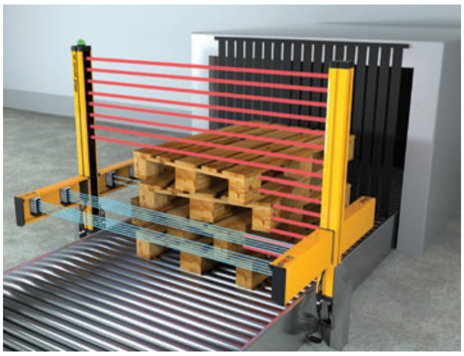
type	protected height	No. beams	description	overall height	connection type	price
For access control - Safety light curtain with integrated muting function					**IP65/67**	
SAFEGATE SMPO - Integrated status lamp and programmable functions – Type 4						
• Maximum range:			12 meter			
1390680	510 mm	2	safety light curtain	710 mm	M12 plug	**1 872.00**
1390682	910 mm	4	safety light curtain	1110 mm	M12 plug	**2 271.00**
Hand detection 30 mm resolution						
1390283	610 mm	31	safety light curtain	720 mm	M12 plug	**2 442.00**
1390285	910 mm	46	safety light curtain	1020 mm	M12 plug	**2 803.00**
1390287	1210 mm	61	safety light curtain	1320 mm	M12 plug	**3 168.00**
1390905	–	–	USB to M12 5 pin cable		*(2 meter)*	**104.00**

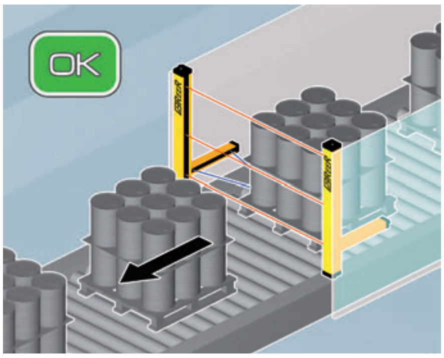
MA muting arms - with integrated photocells

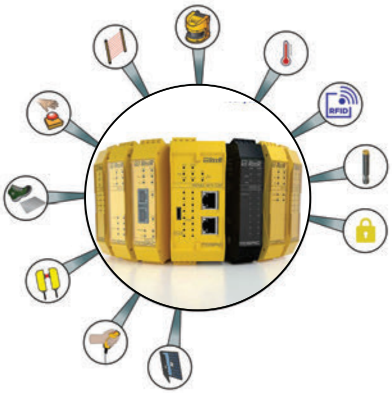
type	muting logic	No. beams	description	maximum range	connection type	price
1390800	exit - only	2	crossed beams photocells	2.5 m	M12 plug	**645.00**
1390802	entry - exit	2	crossed beams photocells	2.5 m	M12 plug	**968.00**
1390804	exit - only	2	parallel beams photocells	3.5 m	M12 plug	**660.00**
1390805	entry - exit	4	parallel beams photocells	3.5 m	M12 plug	**1 216.00**
MZ muting brackets - with integrated M5 5-beam photocells						
1390808	exit - only	2	crossed beams photocells	3.5 m	M12 plug	**755.00**
1390809	entry - exit	2	crossed beams photocells	3.5 m	M12 plug	**1 017.00**
1390810	entry - exit	4	parallel beams photocells	3.5 m	M12 plug	**1 474.00**

Human material differentiation

- Restriction of unauthorised access into dangerous zones







FREE DESIGNER SOFTWARE *included with all master units*

Mosaic - A unique safety controller: Modular, Expandable, Configurable

Mosaic is a modular configurable safety controller capable of managing all safety functions of machinery or plants. Made up of a Master unit which can operate as a stand-alone device or control up to 14 expansion units in a system.

Capable of monitoring several safety sensors and signals such as: light curtains - photocells - laser scanners - emergency stops - electromechanical switches - safety door switches - magnetic switches - safety mats and edges - two-hand controls - hand grip switches - encoders and proximities for safety speed control - load cells - pressure switches - temperature, flow and level measurements *(regardless of brand)*.

• Power supply:	24V DC ± 20%
• Safety level:	SIL 3, PL e, SILCL 3, Cat. 4
• Connections:	Removable *(screw terminal)* blocks
• Mounting:	DIN rail mounting according to EN 50022-35 standard
• Dimensions:	*(H) 99 x (W) 22.5 x (D) 114 mm*

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Advantages

– Tamper-proof system configuration
– Reduced control panel dimension, design and construction time
– Logic configured via graphic interface, eliminating laborious wiring as with traditional solutions
– **Simulation function** allows to validate system functionality without connecting to a machine

type	model	digital inputs	Start / Restart inputs	OSSD safety outputs	status outputs	description	price

Mosaic master units

1100000

1100006

Master units can operate as stand-alone device or expanded with additional I/O modules.

M1 - Standard master unit

- 2 pairs SIL 3 OSSD safety outputs *(PNP 400 mA)*
- 2 inputs for Start/Restart interlock and external device monitoring *(EDM)*
- 2 programmable digital status outputs *(PNP 100 mA)*
- 4 test outputs *(for sensor monitoring)*

type	model	digital inputs	Start / Restart inputs	OSSD safety outputs	status outputs	description	price
1100000	M1	8	2	2 pairs	2	standard master controller	**769.00**
1100005*	MZERO	16	4	4 pairs	4	standalone safety controller	**1 122.00**

* *Not expandable*

M1S/M1S COM - Enhanced master unit

- 4 single SIL 3 OSSD or *(2 pairs)* safety outputs *(PNP 400 mA)*
- 4 inputs for Start/Restart interlock and external device monitoring *(EDM)*
- 4 programmable digital status outputs *(PNP 100 mA)*
- 4 test outputs *(for sensor monitoring)*
- Remote monitoring and built-in Ethernet IP, Modbus TCP, EtherCAT and Profinet *(M1S COM only)*

type	model	digital inputs	Start / Restart inputs	OSSD safety outputs	status outputs	description	price
1100003	M1S	8	4	4 or *(2 pairs)*	4	enhanced master controller	**961.00**
1100006	M1S COM	8	4	4 or *(2 pairs)*	4	master controller builtin comms	**1 451.00**

Accessories for M1/M1S/COM master units

type	model	description	price
1100060	MCM	memory card to store or duplicate master unit configuration as a backup	**83.00**
1100061	MSC	rear bus connector required to connect to any expansion module	**33.00**
1100039	USB	USB configuration cable for M1S/M1S COM (Type C, length 1.8 m)	**55.00**
1100062	USB	USB configuration cable for M1/MZERO (A–mini B, length 1.8 m)	**38.00**

Mosaic - Expansion modules

1100043

1100133

Input/output expansion modules *provides additional digital inputs and outputs to the master unit*

type	model	description	price
1100010	MI8O2	2x pairs SIL 3 OSSD safety outputs, 8x digital inputs, 2x status outputs	**635.00**
1100011*	MI8O4	4x single SIL 3 OSSD safety outputs, 8x digital inputs, 4x status outputs	**731.00**
1100021	MI16	16x digital inputs and 4x test outputs *(for sensor monitoring)*	**609.00**
1100025*	MA4	4x 4-20mA (or 0-10V) analogue inputs *(for analogue sensors)*	**1 666.00**

* *Only compatible with M1S and M1SCOM enhanced Master unit.*

type	model	description	price
1100031	MO4	4x pairs SIL 3 OSSD safety outputs, 4x status output	**715.00**
1100032	MO4LHC	4x single high current SIL 3 OSSD safety outputs (2A), 8x status output	**769.00**

Status outputs *provides additional non-safety outputs to the master unit*

type	model	description	price
1100092	MOS16	16x programmable digital *(non-safety)* signal outputs	**538.00**

Safety relays *provides safety relay outputs with guided contacts*

type	model	description	price
1100041	MR4	4x safety relay outputs with guided contacts *(6A 250 VAC)*	**438.00**
1100043	MOR4S8	4x configurable safety relay outputs with guided contacts	**769.00**

Communication *for connection to the most common industrial Field-bus systems*

type	model		description	price
1100050	MBP	Profibus DP	module for diagnostics and data communication	**936.00**
1100051	MBD	DeviceNET	module for diagnostics and data communication	**1 172.00**
1100052	MBC	CANopen	module for diagnostics and data communication	**869.00**
1100054	MBEI	EtherNET IP	module for diagnostics and data communication	**688.00**
1100082	MBMR	Modbus RTU	module for diagnostics and data communication	**1 086.00**
1100133	MBE COM		Multi-protocol Ethernet IP, Modbus TCP, EtherCAT and Profinet	**545.00**

Safety interfaces and relays

Allows four different operating modes offering the possibility to connect and control different types of safety devices including: Safety Light Curtains, Solid-State-Output Devices *(i.e. RFID safety switch),* Dual-Channel Emergency Stops, Two-Hand Controls and Type 2 Safety Photocells

• Power supply:	24 VDC ± 20%
• Electrical connection:	On terminal block
• Dimensions:	Relays - *(H) 101 x (W) 35 x (D) 120 mm*
	Interfaces - *(H) 99 x (W) 22.5 (35 mm - ADSRM) x (D) 114 mm*

Multifunction safety relay 1330941

1330801 1330904

type	model	no. of inputs	safety inputs	safety outputs	status outputs	description	price
Multifunction safety Interface				DIN rail mounting		PL e - Cat. 4	
1330941	SR SELECT	2	2	2NO	1	multifunction	**376.00**
Safety interface for emergency stop buttons						PL e - Cat. 4	
1330913	ADSRE4	1	2 of 1	3NO+1NC	–	auto/manual start restart	**365.00**
1330803	SR E4	1	2	2NO	–	auto/manual start restart	**303.00**
Safety interface for safety light curtains and switches						Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4	
1330801	SR ZERO	–	2	2NO+1NC	1	relay module for EOS X	**209.00**
1330802	SR ZERO A	–	2	2NO	1	relay module for EOS X	**167.00**
1330900	SR ONE	–	2	2NO	1	relay module for OSSD devices	**313.00**
1330904	SR ONE M	6	4	2NO	2	relay module with muting	**428.00**
Safety speed monitoring interface	*(H) 108 x (W) 22.5 x (D) 114.5 mm*					SIL 3 - SILCL 3 - PL e - Cat. 4	
1100078	SVMRO	2	2	2NO	2	over/zerospeed detection	**927.00**
1100088	SVMROU	2	2	2NO	2	underspeed detection	**927.00**
Safety interface for two-hand controls						PL e - Cat. 4 Type III C (EN574)	
1330805	SR T	1	2	2NO	–	two hand control	**323.00**

RFID safety switches 24 VDC SIL 3 - SILCL 3 - PL e - Cat. 4

R-Safe RFID non-contact safety sensors ensure reliable, tamper-proof protection by monitoring protective doors, gates, and guards, uniquely identifying passive RFID transponders for high coding levels and effective anti-manipulation. Offers easy installation and integration into safety systems up to PL e/SIL 3, with sensors capable of being individually coded in two ways.

Scan to watch video

R-Safe RFID sensor
Serial connection - Up to 16 sensors with individual status output

Generic coding:	The actuator is free and not specifically assigned to the sensor *(one actuator can work with multiple sensors)*
Teach-in coding:	Programmed via teach-in and permanently assigned to sensor during set-up

- Indication: Super bright LED status indicators for immediate diagnostics
- Output: 2 safety inputs and outputs and 1 diagnostic output
- Connection type: M12 Connector, M12 Pigtail, cable
- Mounting: Screw mounting **S** - inter-axis 22 mm
- Can be installed individually or in series with up to 16 units *(accessories required)*
- IP67 and IP69K protection *(cable versions only)* ensure excellent reliability in harsh environments

BASIC: Automatic restart / **PLUS:** Selectable Manual/Automatic restart and serial status output

Magnus MG S
1291001

Magnus MG B
1291011

type		switching distance (mm)	description	dimensions (mm) (H)	(W)	(D)	price
R-Safe RFID		*supplied as sensor/actuator combination*					
1295016	BASIC C S G C	12…25	Generic coding, M12 connector	28.5	57	18	**217.00**
1295006	PLUS C S G C	12…25	Generic coding, M12 connector	28.5	57	18	**239.00**
1295013	BASIC C S G P	12…25	Generic coding, M12 pigtail	28.5	57	18	**245.00**
1295003	PLUS C S G P	12…25	Generic coding, M12 pigtail	28.5	57	18	**270.00**
1295010	BASIC C S G 5	12…25	Generic coding, 5 m cable	28.5	57	18	**238.00**
1295000	PLUS C S G 5	12…25	Generic coding, 5 m cable	28.5	57	18	**260.00**
1295007	PLUS C S T C	12…25	Teach-In coding, M12 connector	28.5	57	18	**251.00**
1295004	PLUS C S T P	12…25	Teach-In coding, M12 pigtail	28.5	57	18	**283.00**
1295001	PLUS C S T 5	12…25	Teach-In coding, 5 m cable	28.5	57	18	**272.00**
Magnetic safety switches		**24 VDC**	*robust thermoplastic enclosure (PBT)*				
1291000	MGS20	3…10	MGS 22 mm mag. safety switch	36	13	26	**110.00**
1291001	MGSM	3…10	MGS mag. actuator for above switch	36	13	26	**37.00**
1291010	MGB20	4…16	MGB 78 mm mag. safety switch	88	25	14	**103.00**
1291011	MGBM	4…16	MGB mag. actuator for above switch	88	25	14	**30.00**

- Coded magnetic operation – tamper resistant
- Sensor with M8/4pin connector: 2 x NO contacts

MECHTRIC

CONTACT US

PERTH
14 Lorries Court
Malaga, 6090
P: (08) 9248 0410

MELBOURNE
21 Kimberly Road,
Dandenong South, 3175
P: (03) 9706 4599

BRISBANE
U6, 57 Mortimer Road,
Acacia Ridge, 4110
P: (07) 3274 3327

SYDNEY
2 Squill place *(entry via Lidco Street)*, Blacktown, 2148
P: (02) 9676 1671

ADELAIDE
72 Wingfield Road,
Wingfield, 5013
P: (08) 8347 2499

www.mechtric.com.au