





ORIGIN MOTIVATION



Saving costs

eliminate complex wiring process, accelerate assembly

► work effort ↓ error rate ↓



Multiple using

usage of M8 / M12 connectors for actuators and sensors

► established and industrial approved, many manufactures available



Decentralized control units

compact machine interfaces without housing

▶ all side sealed



Flexibility

components tend to be individual

► easy labeling / easy to change

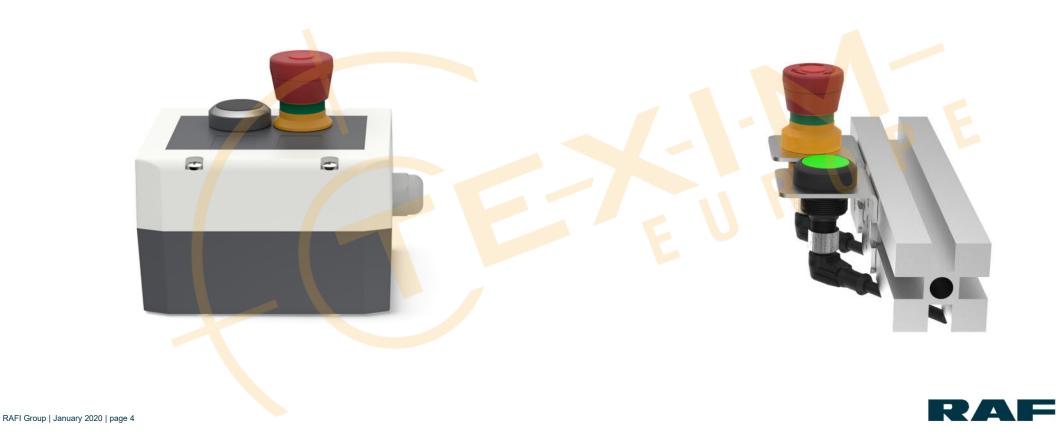






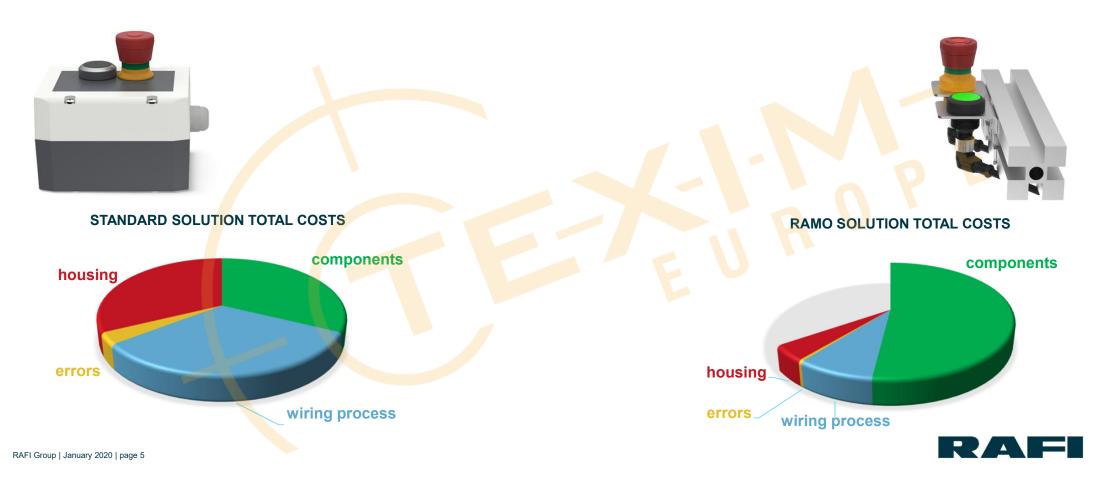
TOTAL COST OF OWNERSHIP

Cost reduction of the complete application in comparison to a standard solution with control components

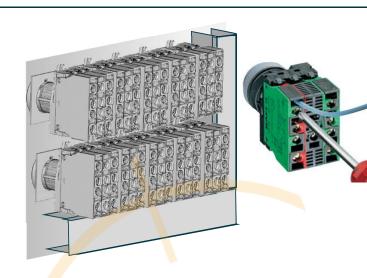


TOTAL COST OF OWNERSHIP

Cost reduction of the complete application in comparison to a standard solution with control components



TRADITIONAL CONNECTION



conventional wiring





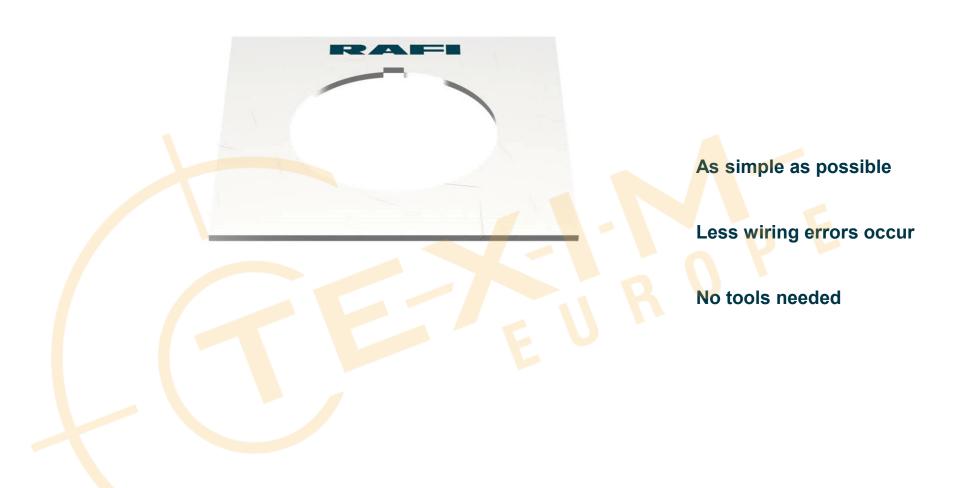


PCB

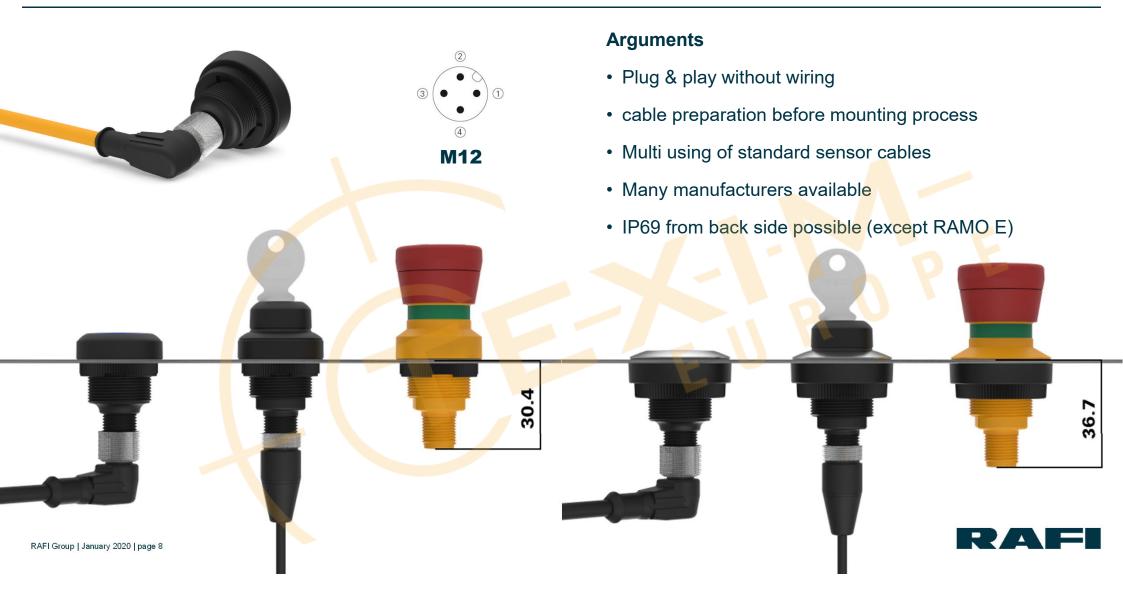


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EASY MOUNTING PROCESS – PLUG & PLAY

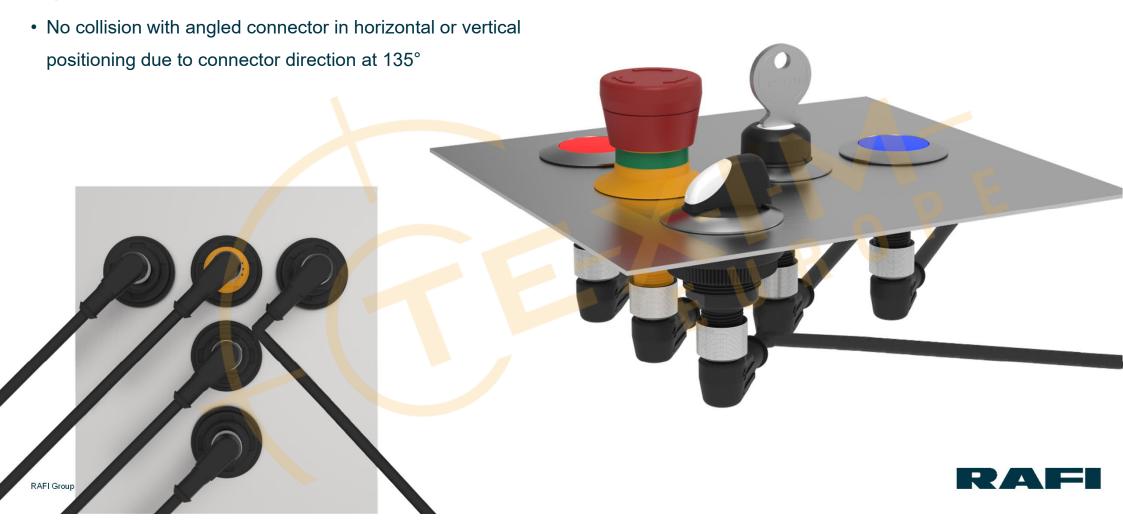


DIMENSIONS



DIMENSIONS

Arguments



THE BIG FAMILY



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RAMO T – TACTILE SWITCH

Contacts1 NO

Illumination SMT LEDs

Operation force 5 N

Operation life time 500.000 cycles

Switched voltage max. 35 V DC

Switching current max. 100 mA

LED voltage 24 V DC

Colors red, green, blue

white, yellow

M8, 4-pole, a-coded

M12, 4-pole, a-coded





Connection

RAMO 30 T – DESIGN EDITION

Contacts

Illumination

Operation force

Operation life time

Switched voltage

Switching current

LED voltage

Colors

Connection

1 NO

SMT LEDs

5 N

500.000 cycles

max. 35 V DC

max. 100 mA

24 V DC

red, green, blue

white, yellow

M12, 4-pole, a-coded





RAMO E – EMERGENCY STOP

Contacts

Illumination

Switched voltage

Switching current

LED voltage

Connection

2 NC

none

max. 35 V DC

max. 100 mA

24 V DC

M12, 4-pole, a-coded

M12, 5-pole, a-coded





RAMO I – SIGNAL LAMP

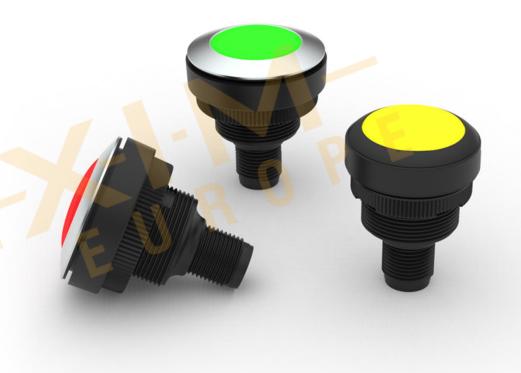
• Illumination SMT LEDs

• LED voltage 24 V DC

Colors red, green, blue

white, yellow

Connection M12, 4-pole, a-coded





RAMO S – SELECTOR SWITCH

Contacts

Illumination

Operation life time

Switched voltage

Switching current

LED voltage

Rotating angle

Connection

1 NO / 2 NO / 1 NO + 1 NC

SMT LEDs

200.000 cycles

max. 32 V

max. 200 mA

24 V DC

various combinations

momentary / latching

M12, 4-pole, a-coded

M12, 8-pole, a-coded





RAMO K - KEY LOCK SWITCH

Contacts

Illumination

Operation life time

Switched voltage

Switching current

Rotating angle

Connection

1 NO / 2 NO / 1 NO + 1 NC

none

300.000 cycles

max. 32 V

max. 100 mA

various combinations

momentary / latching

M12, 4-pole, a-coded

M12, 8-pole, a-coded





RAMO F – FEED-THROUGH



APPLICATIONS



SYMBOLS & LABELING



RAMO EDGE



FURTHER INFORMATION



RAMO family - image movie



RAMO T / I – product movie



Website



PDF

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Technical data components@rafi-group.com

Technical support +49 751 89-6500 == ==







Texim Europe - contact details



Headquaters & Warehouse

Elektrostraat 17 NL-7483 PG Haaksbergen The Netherlands T: +31 (0)53 573 33 33 E: info@texim-europe.com Homepage: www.texim-europe.com









The Netherlands

Elektrostraat 17 NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33 E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10 B-1731 Zellik

T: +32 (0)2 462 01 00 E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane Carlton Le Moorland Lincoln LN5 9HS

T: +44 (0)1522 789 555 E: uk@texim-europe.com



Germany - North

Bahnhofstrasse 92 D-25451 Quickborn

T: +49 (0)4106 627 07-0 E: germany@texim-europe.com



Germany - South

Martin-Kollar-Strasse 9 D-81829 München

T: +49 (0)89 436 086-0 E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9 A-5020 Salzburg

T: +43 (0)662 216 026 E: austria@texim-europe.com



Nordic

Søndre Jagtvej 12 DK-2970 Hørsholm

T: +45 88 20 26 30 E: nordic@texim-europe.com



Italy

Via Matteotti 43 IT-20864 Agrate Brianza (MB)

T: +39 (0)39 9713293 E: italy@texim-europe.com

