

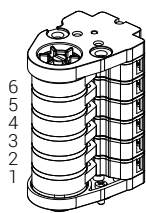
OSCAR - REQUEST FORM FOR NON STANDARD LIMIT SWITCH

Instructions

(See next page for list of components and legends)

- 1 Version:** tick the required version.
- 2 Lima:** tick the box if you require Lima system.
- 3 SIL 1 certified:** tick the box if you require SIL 1 certified units.
- 4 Revolution ratio:** write the required revolution ratio.
- 5 Standard cam set:** write the code of the cam set required.
- 6 Customized cam set:** for non standard cam sets, fill in the scheme choosing the cams and the switches required. It is possible to assemble sets with 2, 3, 4, 5 or 6 cams/switches. Customized cams are available on request.
- 7 Potentiometers, encoders, Yankee:** write the code of the potentiometer, encoder or Yankee required. ATTENTION: the potentiometer PA020009 can be mounted only alone, i.e. with NO sets of cams. Please refer to the table on the next pages for all other possible configurations.
- 8 Coupling, flange, pinion gear:** tick the box when coupling, flange or pinion gear are required. When a standard pinion gear is required, write the code number listed in the pinion gear charts in the catalogue. When a special pinion gear is required, write the number of teeth, the module and the primitive diameter.
- 9 Shaft:** tick the shaft type required. Limit switches with Lima are available only with shafts made of high resistance stainless steel AISI 303. Customized shafts are available on request.
- 10 Cable clamps:** tick type and position of the cable clamps (8 max).

Customized cam set 6



| | | |
|----------|----------|-------------|
| Output 1 | Cam code | Switch code |
| 6 | _____ | _____ |
| 5 | _____ | _____ |
| 4 | _____ | _____ |
| 3 | _____ | _____ |
| 2 | _____ | _____ |
| 1 | _____ | _____ |
| Output 2 | Cam code | Switch code |
| 6 | _____ | _____ |
| 5 | _____ | _____ |
| 4 | _____ | _____ |
| 3 | _____ | _____ |
| 2 | _____ | _____ |
| 1 | _____ | _____ |

Version 1

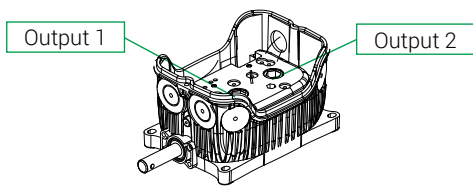
- Version **CE EAC**
- Version **cULus CE EAC**
- Version with anti-moisture plug **CE EAC**

ATTENTION: Limit switches with Lima are only CE marked.
ATTENTION: Rotary limit switches with shaft made of stainless steel AISI 430F are not cULus certified.

Lima 2

SIL1 certified 3

ATTENTION: Oscar XL with cover rise are not SIL1 certified.



Revolution ratio 4

| | |
|--|---|
| Output 1 | Output 2 |
| <input type="checkbox"/> 1:1 <input type="checkbox"/> 1:25 <input type="checkbox"/> 1:200 <input type="checkbox"/> 1:5 <input type="checkbox"/> 1:50 <input type="checkbox"/> 1:250 <input type="checkbox"/> 1:10 <input type="checkbox"/> 1:70 <input type="checkbox"/> 1:300 <input type="checkbox"/> 1:15 <input type="checkbox"/> 1:100 <input type="checkbox"/> 1:450 <input type="checkbox"/> 1:20 <input type="checkbox"/> 1:150 <input type="checkbox"/> 1: <input type="text"/> | <input type="checkbox"/> 1:1 <input type="checkbox"/> Revolution ratio equal to output 1 |

Standard cam set 5

Cam set code _____

_____ Output 1

_____ Output 2

Potentiometers, encoders, Yankee 7

| | | |
|------|----------|----------|
| | Output 1 | Output 2 |
| Code | _____ | _____ |

- Male coupling** **Coupling 8**
- Female coupling** **Flange**
- Pinion gear**

Pinion gear code _____

Customized pinion gear

No. of teeth _____

Module _____

Primitive diameter _____

Standard shaft 9

Shaft made of stainless steel AISI 430F

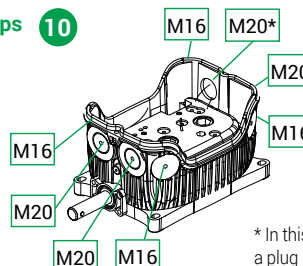
Shaft made of high resistance stainless steel AISI 303

Flexible shaft

Shaft made of stainless steel AISI 430F

Shaft made of high resistance stainless steel AISI 303

Cable clamps 10



* In this position an M20 cable clamp or a plug is mandatory.

5 Legend - Standard cam sets

| No. and type of switches | No. and type of cams | Code |
|--------------------------|----------------------|----------|
| 2 x PRSL0110XX | 2 cams A | FCL20001 |
| | Cams A+C | FCL20003 |
| | 2 cams C | FCL20005 |
| 4 x PRSL0110XX | Cams D+D+B+F | FCL40001 |
| | 4 cams A | FCL40003 |
| | Cams A+A+C+C | FCL40005 |
| | 4 cams C | FCL40007 |
| | Cams C+C+C+E | FCL40009 |
| | Cams A+A+E+E | FCL40011 |
| 5 x PRSL0110XX | 5 camme A | FCL50006 |
| | 5 camme C | FCL50001 |
| 6 x PRSL0110XX | 6 camme A | FCL60003 |
| | 6 camme C | FCL60001 |
| 2 x PRSL0111XX | 2 cams A | FCL20002 |
| | Cams A+C | FCL20004 |
| | 2 cams C | FCL20006 |
| 4 x PRSL0111XX | Cams D+D+B+F | FCL40002 |
| | 4 cams A | FCL40004 |
| | Cams A+A+C+C | FCL40006 |
| | 4 cams C | FCL40008 |
| | Cams C+C+C+E | FCL40010 |
| | Cams A+A+E+E | FCL40012 |
| 5 x PRSL0111XX | 5 camme A | FCL50005 |
| | 5 camme C | FCL50010 |
| 6x PRSL0111XX | 6 camme A | FCL60006 |
| | 6 camme C | FCL60010 |

7 Legend - Potentiometers, encoders standard and Yankee

| Description | Code |
|---|----------|
| Potentiometer MCB 10 kΩ with support | PA020001 |
| Potentiometer MCB 10 kΩ mechanical stop with support | PA020002 |
| Potentiometer Sfernice 10 kΩ ±10% 4 pins with support | PA020003 |
| Potentiometer Sfernice 10 kΩ ±10% 3 pins with support | PA020004 |
| Potentiometer Sfernice 5 kΩ ±10% with support | PA020005 |
| Potentiometer Megatron 4.7 kΩ with support | PA020006 |
| Potentiometer Megatron 10 kΩ with support | PA020007 |
| Potentiometer Megatron 2.2 kΩ with support | PA020008 |
| Potentiometer Novotechnik 2KΩ with support | PA020009 |
| Encoder 36 pulses./rev. with support | PA030001 |
| Encoder 150 pulses./rev. with support | PA030002 |
| Yankee - current output | PA01AA01 |
| Yankee - voltage output | PA01AB01 |
| Yankee - PWM output | PA01AC01 |

6 Legend - Switches

| PRSL0110XX | PRSL0111XX |
|------------|------------|
| 1NO+1NC | 1NC |
| | |

6 Legend - Standard cams

| Cam | Code for PRSL0110XX switches | Switching angle with PRSL0110XX | Code for PRSL0111XX switches | Switching angle with PRSL0111XX |
|-----|------------------------------|---------------------------------|------------------------------|---------------------------------|
| A | PRSL7194PI | 21.5° ±0.5° | PRSL7194PI | 23.0° ±0.5° |
| B | PRSL7193PI | 21.5° ±0.5° | PRSL7193PI | 23.0° ±0.5° |
| C | PRSL7195PI | 82.0° ±0.5° | PRSL7195PI | 86.0° ±0.5° |
| D | PRSL7196PI | 94.0° ±0.5° | PRSL7196PI | 97.5° ±0.5° |
| E | PRSL7191PI | 204.5° ±0.5° | PRSL7191PI | 203.0° ±0.5° |
| F | PRSL7192PI | 328.5° ±0.5° | PRSL7192PI | 327.0° ±0.5° |

6 Configuration table

The following table shows possible configurations of Oscar and Oscar XL.

When it is not possible to mount a set of cams together with a potentiometer/encoder, the table shows «Not available.»

When the cover PA090008 is not high enough to hold the elements mounted inside the limit switch, it is possible to use the cover rise PRSL0703PI (the table shows «Oscar XL»).

In all other cases it is possible to mount the sets of cams and potentiometer/encoder with the standard cover PA090008 (the table shows «Oscar»).

| | Set of cams with 2 switches | Set of cams with 3 switches | Set of cams with 4 switches | Set of cams with 5 switches | Set of cams with 6 switches |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Set of cams only | Oscar | Oscar | Oscar | Oscar | Oscar XL |
| Set of cams + Yankee1 | Oscar | Oscar | Oscar | Oscar XL | Oscar XL |
| Set of cams + PA020001 | Oscar | Oscar XL | Oscar XL | Not available | Not available |
| Set of cams + PA020002 | Oscar | Oscar XL | Oscar XL | Not available | Not available |
| Set of cams + PA020003 | Oscar | Oscar | Oscar XL | Oscar XL | Not available |
| Set of cams + PA020004 | Oscar | Oscar | Oscar XL | Oscar XL | Not available |
| Set of cams + PA020005 | Oscar | Oscar | Oscar XL | Oscar XL | Not available |
| Set of cams + PA020006 | Oscar | Oscar XL | Oscar XL | Not available | Not available |
| Set of cams + PA020007 | Oscar | Oscar XL | Oscar XL | Not available | Not available |
| Set of cams + PA020008 | Oscar | Oscar XL | Oscar XL | Not available | Not available |
| Set of cams + PA030001 | Oscar | Oscar | Oscar XL | Oscar XL | Not available |
| Set of cams + PA030002 | Oscar | Oscar | Oscar XL | Oscar XL | Not available |

