

(1) **EU-Type-Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV CY 24 ATEX 0207017 X

(4) for the equipment: Level and Flow Switches
 Level Switches Series: 1020, 20, 30, 40, 50, 60, 70, 80, 6000, 7000, 3060, 3070, 4060, 4070, 5060, 5070, ULC/ULS
 Flow Switches Series: PL, CV, TGO, PLD

(5) of the manufacturer: **Officine Orobiche S.r.l.**

(6) Address: Via G. Paglia 22 – 24050 Zanica (BG) - Italy

Order number: 0207017

Date of issue: 2025-12-29

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.

(8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 25 0207017.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-11:2012 EN 60079-26:2015 EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

	II 1/2G Ex db IIC T6... T5 Ga/Gb	II 1G Ex ia IIC T6... T4 Ga
	II 1/2G Ex db/ib IIC T6... T5 Ga/Gb	II 1D Ex ia IIIC T85°C Da
	II 2G Ex db IIC T6... T5 Gb	
	II 2D Ex tb IIIC T85°C... T100°C Db	

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous



TÜV CYPRUS (TUV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

(13) SCHEDULE

(14) EU-Type-Examination Certificate No. TÜV CY 24 ATEX 0207017 X

(15) Description of equipment

The Level Switches series 1020, 20, 30, 40, 50, 60, 70, 80, 6000, 7000, 3060, 3070, 4060, 4070, 5060, 5070, UC/ULS and the Flow Switches series PL, CV, TGO, PLD are equipment for installation in hazardous area available in Ex d, Ex t or Ex i types of protection depending on the configuration of the model.

The level switches are available for external or internal mounting on tanks and depending upon their working requirements, are equipped with floats or displacers and have flanged or threaded connections. Flow switches are used to indicate whether or not a fluid or gas is flowing in a pipeline. Flow switches are manufactured in various models such as valve body, bladed and flow indication, suitable for the most diverse industrial applications.

They contain simple electrical parts as mechanical or magnetic micro-switches or ultrasonic switches with their electronic control board.

The models with type of protection Ex d and Ex t have a flameproof metal housing, suitable for Group II (G) and Group III (D) and identified as type "EP" (explosion proof).

The models with type of protection Ex i are available with metal housing identified as type "WP" (water proof) and are suitable for Group II (G) and Group III (D).

Housings type "EP" and "WP" consist of a common base and three covers of different size identified as Low "C", Medium "S" and High "D".

The housing can be supplied in fixed or rotatable version and different materials.

Models ULC and ULS are available with explosion proof housing "EP" only and size low "C" or Medium "S" in fixed version only.

Flameproof Enclosure Level switches Type key:

Series	Drive	Marking			Housing	Cover Size	
		A	C	D		Fixed	Rotable
1020	Horizontal float	A	C	D	EP	C/S/D	-
20	Float	B	C	D			CG/SG/DG
30	Float	B	C	D			
40	Displacer	B	C	D			
50	Float	B	C	D			
60	Float	B	C	D			
70	Float	B	C	D			
80	Float	B	C	D			
6000	Displacer	B	C	D			
7000	Displacer	B	C	D			
3060	Float	B	C	D			

TÜV CYPRUS (TÜV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

Series	Drive	Marking			Housing	Cover Size	
		B	C	D		Fixed	Rotable
3070	Float	B	C	D	EP	C/S/D	CG/SG/DG
4060	Displacer	B	C	D			
4070	Displacer	B	C	D			
5060	Float	B	C	D			
5070	Float	B	C	D			
ULC	Ultrasonic	B				C	-
ULS	Ultrasonic	B			S	-	

Flameproof Enclosure Flow switches Type Key:

Series	Drive	Marking			Housing	Cover Size	
		B	C	D		Fixed	Rotable
PL	Mobile flap	B	C	D	EP	C/S/D	CG/SG/DG
CV	Float	B	C	D			
TGO	Mobile flap	B	C	D			
PLD	Mobile flap	B	C	D			

Marking:

- (A) II 1/2G Ex db IIC T6...T5 Ga/Gb
- (B) II 1/2G Ex db/ib IIC T6...T5 Ga/Gb
- (C) II 2G Ex db IIC T6...T5 Gb
- (D) II 2D Ex tb IIIC T85°C...T100°C Db

Electrical characteristics:

Rated Voltage and Rated Current depend on micro switch used: see Marking Label

Equipment with Marking (B) (Ex db/ib for EPL Ga/Gb) shall be connected with intrinsically safe associated apparatuses suitable type of protection 'Ex ib' (EPL Gb) and considering following input electrical parameters for equipment:

$U_i = 30 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 0.75 \text{ W}$, $C_i = 50 \text{ pF}$, $L_i = 10 \text{ }\mu\text{H}$

Ambient Temperature:

For all model except ULC and ULS:

Tamb. max = + 60°C for temperature Class T6 or T85°C

Tamb. max = + 70°C for temperature Class T5 or T100°C

The minimum ambient temperature is a function of the characteristics of micro switches used, summarized in following table:

TÜV CYPRUS (TÜV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

Microswitch code	Ambient T Min.
M4, M12	-15 °C
M19, M20, M22	-20 °C
M6, M20	-23 °C
M2, M3	-25 °C
M9, M10, M11, M14, M21, M23, VD, N1	-50 °C

For level switches model ULC and ULS ambient temperature range:

Tamb. -40°C ÷ +40°C for temperature Class T6 or T85°C

Tamb. -40°C ÷ +55°C for temperature Class T5 or T100°C

Warning label:

“WARNING – DO NOT OPEN WHEN ENERGIZED”

“WARNING – FOR PROPER INSTALLATION SEE INSTRUCTION MANUAL”

Intrinsic Safety Level switches Type Key:

Series	Subseries	Drive	Housing	Cover Size Fixed	Cover Size Rotable
1020		Horizontal float	WP	C/S/D	-
20	Series 20 D	Float			CG/SG/DG
30		Float			
40	Series 41A+Series 41B Series 41C+Series 41D Series 41E	Displacer			
50		Float			
60	Series 60 D	Float			
70	Series 70 D	Float			
80	Series 81+Series 82 Series 83+Series 84	Float			
6000		Displacer			

TÜV CYPRUS (TÜV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

Series	Subseries	Drive	Housing	Cover Size Fixed	Cover Size Rotable
7000		Displacer	WP	C/S/D	CG/SG/DG
3060		Float			
3070		Float			
4060		Displacer			
4070		Displacer			
5060		Float			
5070		Float			

Marking:

II 1G Ex ia IIC T6...T4 Ga
 II 1D Ex ia IIIC T85°C Da

Intrinsic Safety Flow switches Type Key:

Series	Subseries	Drive	Housing	Cover Size Fixed	Cover Size Rotable
PL	+ Series PL 11, PL 12, ..., PL 19, PL 20	Moveable paddle	WP	C/S/D	CG/SG/DG
CV	+ Series CV 15 - CVM 15 + Series CV 20 - CVM 20 + Series CV 25 - CVM 25 + Series CV 32 - CVM 32 + Series CV 40 - CVM 40 + Series CV 50 - CVM 50	Float			

TÜV CYPRUS (TÜV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

Series	Subseries	Drive	Housing	Cover Size Fixed	Cover Size Rotable
TGO	+ Series TGO 40 + Series TGO 50 + Series TGO 65 + Series TGO 80 + Series TGO 100 + Series TGO 125 + Series TGO 150	Moveable paddle	WP	C/S/D	CG/SG/DG
PLD	+ Series PLD 40 + Series PLD 50 + Series PLD 65 + Series PLD 80 + Series PLD 100 + Series PLD 125 + Series PLD 150	Moveable paddle			

Marking:

II 1G Ex ia IIC T6... T4Ga

II 1D Ex ia IIIC T85°C Da

Ambient Temperature:

For Gas:

Tamb max=+40°C for temperature

Class T6

Tamb max=+70°C for temperature

Class T4

For Dust:

Tamb max= 70°C for T85°C

The minimum ambient temperature is a function of the characteristics of micro switches used, summarized in following table:

Microswitch code	Ambient T Min.
M4, M12	-15 °C
M19, M20, M22	-20 °C
M6, M20	-23 °C
M2, M3	-25 °C
M9, M10, M11, M14, M21, M23, VD, N1	-50 °C

TÜV CYPRUS (TÜV NORD) Ltd,
2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

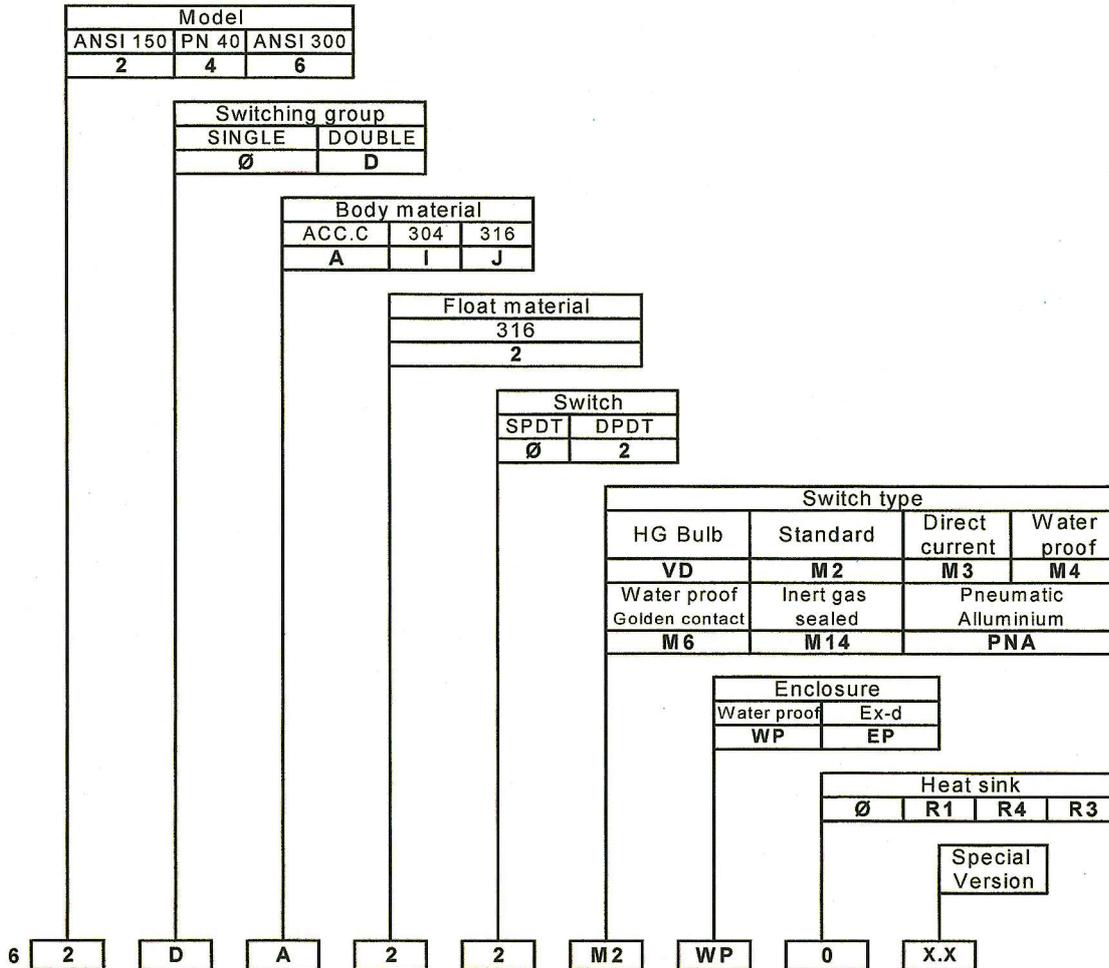
Electrical parameters:

Ui= 30 V, Ii= 100 mA, Pi= 0.75 W, Ci= 50 pF, Li= 10 uH

Warning label:

“WARNING – FOR PROPER INSTALLATION SEE INSTRUCTION MANUAL”
 “WARNING – DO NOT OPEN WHEN ENERGIZED”

Here below is an example of Identification Type Code referred to the 60 Series



TÜV CYPRUS (TÜV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004

(16) Test documents are listed in the test report No. 25 0207017

(17) Special conditions for safe use

- Equipment with Marking (B) (Ex db/ib for EPL Ga/Gb) shall be connected with intrinsically safe associated apparatuses suitable for level of protection 'Ex ib' and considering input electrical parameters here below indicated:

$U_i = 30 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 0.75 \text{ W}$, $C_i = 50 \text{ pF}$, $L_i = 10 \text{ }\mu\text{H}$

- For all models that are suitable for EPL Ga, the equipment with enclosures made of aluminum alloy shall be installed in such a way that ignition hazards due to impact or friction are avoided. For reference see Instruction manual.

- The flameproof joints are not intended to be repaired.

(18) Essential Health and Safety Requirements

This certificate covers the Essential Health and Safety Requirements related to the Directive 2104/34/EU.

TÜV CYPRUS (TÜV NORD) Ltd,
2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd



Cert No. C 004