






# Photoelectric sensors in hygienic and washdown design






	 	 		
product family	FxDR 14	FxDH 14	product family	FKDR 14 FKDH 14
characteristics	- Washdown design - IP 68 / IP 69K - IO-Link	- Hygienic design - 100% groove-free design - IP 68 / IP 69K - IO-Link	characteristics	- Contrast sensor - Washdown / hygienic design - IP 68 / IP 69K - White light
dimension	19,6 x 62,4 x 33,8 mm	19,6 x 99,5 x 33,6 mm	dimension	19,6 x 62,4 x 33,8 mm
ranges			sensing distance Tw	12,5 mm
diffuse sensors background suppression	400 mm	400 mm	response time	50 µs
SmartReflect™ light barriers	800 mm	800 mm	size of measuring spot	1 x 2,2 mm
retro-reflective sensor	3,5 m	3,5 m		
response / release time	< 1,8 ms	< 1,8 ms		

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- Stainless steel housing V4A
- *proTect+* sealing concept
- Ecolab-tested and -certified
- EHEDG-certified
- FDA-conform materials
- SmartReflect™ – the first light barrier without reflector
- Washdown design for wet zone applications
  - Traditional mounting concept
- Hygienic design for applications in the food industry
  - Groove-free design, dirt accumulation not possible

				
product family	FADR 14	FADH 14	OADR 20	
characteristics	<ul style="list-style-type: none"> <li>- Distance measuring sensor</li> <li>- Washdown design</li> <li>- IP 68 / IP 69K</li> <li>- Measuring range can be limited</li> <li>- Red light</li> </ul>	<ul style="list-style-type: none"> <li>- Distance measuring sensor</li> <li>- Hygienic design</li> <li>- 100% groove-free design</li> <li>- IP 68 / IP 69K</li> <li>- Measuring range can be limited</li> <li>- Red light</li> </ul>	<ul style="list-style-type: none"> <li>- Distance measuring sensor</li> <li>- Washdown design</li> <li>- IP 69K</li> <li>- Measuring range can be limited</li> <li>- Laser beam</li> </ul>	
dimension	19,6 x 62,4 x 33,8 mm	19,6 x 99,5 x 33,6 mm	20,3 x 65 x 50 mm	
measuring distance	50 ... 400 mm	50 ... 400 mm	30 ... 600 mm	
resolution	0,1 mm	0,1 mm	5 µm	
response time	< 5 ms	< 5 ms	< 0,9 ms	
output	4 ... 20 mA 0 ... 10 V	4 ... 20 mA 0 ... 10 V	4 ... 20 mA 0 ... 10 V	
specific characteristics	<ul style="list-style-type: none"> <li>- An alarm output indicates an incorrect measurement or if the object is outside of the measuring range</li> <li>- Service status indicator when soiled</li> </ul>	<ul style="list-style-type: none"> <li>- An alarm output indicates an incorrect measurement or if the object is outside of the measuring range</li> <li>- Service status indicator when soiled</li> </ul>	<ul style="list-style-type: none"> <li>- An alarm output indicates an incorrect measurement or if the object is outside of the measuring range</li> <li>- Input for synchronizing measurements</li> <li>- Laser diode can be switched on/off</li> </ul>	